Name	[	Date	Class	
Datacah				
LESSON Reteach	nia Mathada ta Sal	volino	ar Svetame	
			ai Systems	
1 Solve one equation for (	thod to solve a system of lone variable	linear equa	tions:	
2. Substitute this expression	on into the other equation.			
<ol> <li>Solve for the other varia</li> <li>Substitute the value of t</li> </ol>	ble. he known variable in the eo	nuation in S	Step 1	
5. Solve for the other varia	ble.			
6. Check the values in both	n equations.	l	Jse this equation.	
	y = x + 2		t is solved for <i>y</i> .	
	(2x + y = 1)			
Use the substitution	2x + y = 17			
coefficient of one of the	2x + (x + 2) = 1/	Substitute $x + 2$ for y.		
variables is 1 or $-1$ .	3x + 2 = 1/	Simplify	and solve for x.	
	3x = 15			
Substituto $x = 5$ into $y = x$	x = 5	⊥ <b>2</b>		
Substitute $x = 5$ into $y = x^2$	+ 2 and solve for y. $y = x$	+ 2 + 2		
	y = 3 y = 7			
The solution of the system i	s the ordered pair (5.7)			
Check using both equations	v = x + 2 7 -	$\frac{?}{2}(5) + 2$	$7 = 7 \mathbf{J}$	
	2x + y = 17; 2(§	, 5) + 7 ≟ 1	7: 17 = 17✓	
	<b>,</b> , , , ,	- /		
Use substitution to solve even $v = 2x - 5$	ach system of equations.	3x + 2y = -	1	
<b>1.</b> $\begin{cases} y & -x \\ 3x + y = 10 \end{cases}$	<b>2.</b> {	x - y = 2		
Use $y = 2x - 5$ .	Sc	lve for <i>x</i> :	x-y=2.	
3 <i>x</i> + = 10	<b>X</b> =	=		
	3(	)	+ 2y = 1	
Ordered pair solution:	Or	dered pair	solution:	

## Reteach LESSON **3-2** Using Algebraic Methods to Solve Linear Systems (continued) To use the **elimination method** to solve a system of linear equations: 1. Add or subtract the equations to eliminate one variable. 2. Solve the resulting equation for the other variable. 3. Substitute the value for the known variable into one of the original equations. 4. Solve for the other variable. 5. Check the values in both equations. The y terms have (3x + 2y = 7)opposite coefficients, Use the elimination 5x - 2y = 1so add. method when the 3x + 2y = 7Add the equations. coefficients of one of +5x - 2y = 1the variables are the same or opposite. 8*x* = 8 Solve for x. x = 1Substitute x = 1 into 3x + 2y = 7 and solve for y: 3x + 2y = 73(1) + 2v = 72y = 4y = 2The solution to the system is the ordered pair (1, 2). 3x + 2y = 75x - 2y = 1Check using both equations: $3(1) + 2(2) \stackrel{?}{=} 7 \qquad 5(1) - 2(2) \stackrel{?}{=} 1$ 7 = 7✓ 1 = 1

Use elimination to solve each system of equations.

<b>3.</b> $\begin{cases} 2x + y = 1 \\ -2x - 3y = 5 \end{cases}$	4. $\begin{cases} 3x + 4y = 13 \\ 5x - 4y = -21 \end{cases}$
2x + y = 1 $+(-2x - 3y = 5)$	3x + 4y = 13 + $5x - 4y = -21$
-2 <i>y</i> =	
<i>y</i> =	x =
Ordered pair solution:	Ordered pair solution:

LESSON Practice A			LESSON Practice B		
Using Algebraic	Methods to Solve Lir	near Systems		c Methods to Solve L	inear Systems
y = x - 3	system of equations.		x = 7y - 4	y - 3x = 5	3x - 4y = 20
x + 2y = 6			1. $2x - 3y = 14$	2. $2x = 3y + 6$	3. $y - 2x = 0$
<b>a.</b> Substitute $x - 3$ for $y$ in $x$	x = 4	ation for X.	(10.2)	(-3, -4)	(-4 - 8)
b Substitute your value for a	x - x		(10, 2)	( 0, +)	( 4, 0)
<b>b.</b> Cubbilitute your value for <i>y</i>	v = 1		Use elimination to solve each	n system of equations.	(D): 5: 4
c. Write the solution as an o	rdered pair.	(4, 1)	4. $\begin{cases} x + 6y = 1 \\ 3x + 5y = -10 \end{cases}$	5. $\begin{cases} 3x + 4y = 6 \\ 2x + 3y = 3 \end{cases}$	6. $\begin{cases} 3x - 5y = 1 \\ 2x + 3y = -12 \end{cases}$
<b>2.</b> $\begin{cases} x = 5 - y \\ x = 5 - y \end{cases}$	<b>3.</b> $\begin{cases} y = 3x + 2 \\ 0 = 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	4. $ x - y  = 2$			
(2x + 5y = 16)	(2x + 3y = 17)	y = 4x + 1	(-5, 1)	(6, -3)	(-3, -2)
(3, 2)	(1, 5)	(-1, -3)	Use substitution or elimination	on to solve each system of ec	quations.
Use elimination to solve each s	system of equations.		7. $\begin{cases} x + y = 13 \\ 2x - 3y = 1 \end{cases}$	8. $\begin{cases} 9x + 2y = 5 \\ 3x - y = -10 \end{cases}$	9. $\begin{cases} 2x + y = 1 \\ x = 5 + y \end{cases}$
<b>5.</b> $\begin{cases} 4x - 5y = 7 \\ 3x - 4y = 6 \end{cases}$			(2x 0y 1		(x = 0 + y)
a. Multiply the first equation	by -3 and the second equation	n by 4.	(8, 5)	(-1,7)	(2, -3)
	$\int -12x + 15y = -2$	1	10. $\begin{cases} x = -8y \\ y = -14 \end{cases}$	11. $\begin{cases} 2x + 4y = 12 \\ 2x + 2y = 62 \end{cases}$	12. $\begin{cases} 5x - 2y = -1 \\ 2y = -1 \end{cases}$
	12x - 16y = 24		(x + y = 14)	(-3x + 3y = 63)	(3x - y) = -2
b. Add the two equations, where the two equations is the two equations and the two equations is the two equations	hich eliminates x. Solve for y.		(16, -2)	(-12, 9)	(-3, -7)
	v = -3		Solve.		
c. Substitute your value for a	/ into the first equation. Solve for	Dr <i>x</i> .	13. Bill leaves his house for Ma	akayla's house riding his bicycle	e at 8 miles
Write the solution as an o	rdered pair.	(-2, -3)	Bill's house walking at 3 mi	iles per hour.	aung lowaru
6. $5x + y = 19$	7  [-x + 3y = 12]	$\frac{1}{2x+3y=4}$	a. Write a system of equat	ions to represent the distance,	d, each is from
(-2x - y) = -7	6x - y = -21	4x - 2y = -8		d = 8.25 - 8	}h
				d = 3h	
(4, -1)	(-3, 3)	(-1, 2)	b. Solve the system to dete	ermine how long they travel bef	fore meeting.
				0 75 h or 45 min	
				0.75 11 01 45 11111	
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	Mathada ta Calua Lia		LESSON Reteach	a Mathada ta Cabua I	in an Oustania
<b>Practice C</b> <b>3-2</b> Using Algebraic Use substitution or elimination	Methods to Solve Lir to solve each system of equ	near Systems	<b>Reteach</b> <b>3-2</b> Using Algebrai	c Methods to Solve L	inear Systems
USE SUBSTITUTION OF CONTRACTOR OF CONTRACTON	Methods to Solve Lin to solve each system of equ	near Systems nations. $x + 4y = 1$	LESSON Reteach 3-2 Using Algebrai To use the substitution meth 1. Solve one equation for one	c Methods to Solve L od to solve a system of linear of e variable.	inear Systems equations:
<b>LESSON</b> Practice C <b>3-2</b> Using Algebraic Use substitution or elimination 1. $\begin{cases} x = y - 5.2 \\ 2x + 3y = 9.6 \end{cases}$	Methods to Solve Lin to solve each system of equ 2. $\begin{cases} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{cases}$	near Systems tations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$	LESSON Reteach B22 Using Algebrai To use the substitution meth 1. Solve one equation for om 2. Substitute this expression 3. Solve for the other variable	<b>c</b> Methods to Solve L od to solve a system of linear of e variable. into the other equation. e.	inear Systems
<b>LESSON Practice C</b> <b>3-2</b> <i>Using Algebraic</i> Use substitution or elimination 1. $\begin{cases} x = y - 5.2 \\ 2x + 3y = 9.6 \end{cases}$	Methods to Solve Lin to solve each system of equ 2. $\begin{cases} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{cases}$	near Systems hations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$	Image: Constraint of the substitution         Tesson           3-2         Using Algebrai           To use the substitution meth         . Solve one equation for om           2.         Substitute this expression           3.         Solve for the other variable           4.         Substitute the value of the           5.         Solve for the other variable	<b>c Methods to Solve L</b> od to solve a system of linear of variable. into the other equation. e. known variable in the equation e.	inear Systems equations: n in Step 1.
LESSON Practice C 3-2 Using Algebraic Use substitution or elimination 1. $\begin{cases} x = y - 5.2 \\ 2x + 3y = 9.6 \end{cases}$ (-1.2, 4)	Methods to Solve Lin to solve each system of equ 2. $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $(-3, -3\frac{1}{2})$	near Systems lations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ $(8\frac{1}{4}, -2)$	To use the substitution meth Solve one equation for onr Solve one equation for onr Substitute this expression Solve for the other variable Substitute the value of the Solve for the other variable Check the values in both e	c Methods to Solve L od to solve a system of linear of e variable. into the other equation. e. known variable in the equation e. gquations.	inear Systems equations: in Step 1.
LESSON Practice C 3-2 Using Algebraic Use substitution or elimination 1. $\begin{cases} x = y - 5.2 \\ 2x + 3y = 9.6 \end{cases}$ (-1.2, 4) 4. $\begin{cases} 2x + 20y = 3 \\ 2x + 20y = 3 \end{cases}$	Methods to Solve Lin to solve each system of equ 2. $\begin{vmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{vmatrix}$ $\frac{\left(-3, -3\frac{1}{2}\right)}{\left(x + y = 5\right)}$	near Systems nations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ $\underbrace{\left(8\frac{1}{4}, -2\right)}_{6, 1}$	Image: Construction of the second structure         Reteach           32         Using Algebrai           To use the substitution meth         Solve one equation for one           Substitute this expression         Solve for the other variable           Solve for the other variable         Solve for the other variable           6.         Check the values in both e	c Methods to Solve L od to solve a system of linear of e variable. into the other equation. e. known variable in the equation e. equations. $\begin{cases} y = x + 2 \\ 2x + y = 17 \end{cases}$	inear Systems equations: h in Step 1. Use this equation. It is solved for y.
Itesson         Practice C           32         Using Algebraic           Use substitution or elimination           1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4)           4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ $\underbrace{\begin{pmatrix} -3, -3\frac{1}{2} \\ x + y = 5 \\ 3x + 2y = 4 \end{bmatrix}$	near Systems nations. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ 6. $ \begin{cases} \frac{(8\frac{1}{4}, -2)}{(4x - 2y = 21)} \end{cases} $	LESSON         Reteach           32         Using Algebrai           To use the substitution meth         Solve one equation for on           Solve one equation for on         Solve for the other variable           Solve for the other variable         Solve for the other variable           6.         Check the values in both e           Use the substitution         Solve	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. into the other equation. e. aquations. $\begin{cases} y = x + 2 \\ 2x + y = 17 \end{cases}$ $2x + y = 17$	inear Systems equations: h in Step 1. Use this equation. It is solved for <i>y</i> .
LESSON LESSON J: $\begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix}$ (-1.2, 4) 4. $\begin{bmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \\ (-8\frac{1}{0}, 1) \end{bmatrix}$	Methods to Solve Lin to solve each system of equ 2. $ \begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix} $ 5. $ \frac{\left(-3, -3\frac{1}{2}\right)}{\begin{vmatrix} x + y = 5\\ 3x + 2y = 4 \end{vmatrix}} $ (-6, 11)	the ear Systems hattons. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ 6. $ \frac{\left(8\frac{1}{4}, -2\right)}{\left(3x + 4y = 35 \\ 4x - 2y = 21 \end{cases} $ (7, 3 $\frac{1}{2}$ )	Itesson         Reteach           32         Using Algebrai           To use the substitution meth         1. Solve one equation for on           2. Substitute this expression         3. Solve for the other variable           4. Substitute the value of the         5. Solve for the other variable           6. Check the values in both of         0.           Use the substitution methed when the coefficient of one of the         0.	c Methods to Solve L od to solve a system of linear of e variable. into the other equation. a. known variable in the equation a. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Suff	inear Systems equations: in Step 1. Use this equation. It is solved for y. bottitute x + 2 for y.
$\begin{array}{c c} \hline \textbf{LESSON} & \textbf{Practice C} \\ \hline \textbf{322} & \textbf{Using Algebraic} \\ \hline \textbf{Use substitution or elimination} \\ \textbf{1.} & \begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix} \\ \hline \textbf{4.} & \begin{bmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{bmatrix} \\ \hline \textbf{4.} & \begin{bmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{bmatrix} \\ \hline \textbf{6.} & \begin{bmatrix} (-8\frac{1}{2}, 1) \end{bmatrix} \\ \hline \textbf{6.} & \textbf{1.} \end{bmatrix}$	Methods to Solve Lin to solve each system of equ 2. $ \begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases} $ 5. $ \begin{cases} -3, -3\frac{1}{2} \\ 3x + 2y = 4 \end{cases} $ (-6, 11)	$ \begin{array}{l} \textbf{hear Systems} \\ \textbf{hattons.} \\ \textbf{3.} & \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} \\ \textbf{6.} & \hline \begin{pmatrix} 8\frac{1}{4}, -2 \\ 4x - 2y = 21 \end{cases} \\ \hline \begin{pmatrix} 3x + 4y = 35 \\ 4x - 2y = 21 \end{cases} \\ \hline \begin{pmatrix} 7, 3\frac{1}{2} \end{pmatrix} \\ \end{array} $	Itesson         Reteach           32         Using Algebrai           To use the substitution meth         1. Solve one equation for one           2. Substitute this expression         3. Solve for the other variable           4. Substitute the value of the         5. Solve for the other variable           6. Check the values in both e         1. Use the substitution meth the coefficient of one of the variables is 1 or -1.	<b>c</b> Methods to Solve L od to solve a system of linear of a variable. into the other equation. e. known variable in the equation e. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul 3x + 2 = 17 Sul	inear Systems equations: a in Step 1. Use this equation. It is solved for y. bstitute x + 2 for y. applify and solve for x.
LESSON         Practice C           32         Using Algebraic           Use substitution or elimination         1. $\begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix}$ (-1.2, 4)         (-1.2, 4)           4. $\begin{bmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{bmatrix}$ (-8 $\frac{1}{2}$ , 1)           7. $\begin{bmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x - 4y \end{bmatrix}$	Methods to Solve Lin to solve each system of equ 2. $\begin{vmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{vmatrix}$ $(-3, -3\frac{1}{2})$ 5. $\begin{vmatrix} x + y = 5 \\ 3x + 2y = 4 \end{vmatrix}$ $(-6, 11)$ 8. $\begin{vmatrix} 5x - 5y = 6 \\ 4x + 7y = -4 \end{vmatrix}$	near Systems nations. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ 6. $ \frac{\left(8\frac{1}{4}, -2\right)}{\left(3x + 4y = 35 \\ 4x - 2y = 21 \end{cases} $ 9. $ \begin{cases} 2x - 8y = 24 \\ y = 21 = 16y \end{cases} $	Itesson         Reteach           32         Using Algebrai           To use the substitution meth         Solve one equation for on           2. Substitute this expression         Solve for the other variable           3. Solve for the other variable         Solve for the other variable           6. Check the values in both e         Use the substitution method when the coefficient of one of the variables is 1 or -1.	c Methods to Solve L nod to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul 3x + 15 x = 5	inear Systems equations: n in Step 1. Use this equation. It is solved for <i>y</i> . bistitute x + 2 for <i>y</i> . nplify and solve for <i>x</i> .
$\begin{array}{c c} \hline \begin{array}{c} \hline \\ \textbf{1} \\ \textbf{2} \\ \textbf{2} \\ \textbf{2} \\ \textbf{2} \\ \textbf{2} \\ \textbf{3} \\ \textbf{2} \\ \textbf{2} \\ \textbf{3} \\ \textbf{2} \\ \textbf{3} \\ \textbf{2} \\ \textbf{2} \\ \textbf{3} \\ \textbf{3} \\ \textbf{4} \\ \hline \begin{array}{c} (-1.2, 4) \\ (-1.2, 4) \\ (-1.2, 4) \\ \textbf{4} \\ \textbf{2} \\ \textbf{2} \\ \textbf{2} \\ \textbf{3} \\ \textbf{2} \\ \textbf{4} \\ \textbf{2} \\ \textbf{2} \\ \textbf{4} \\ \textbf{3} \\ \textbf{2} \\ \textbf{4} \\ \textbf{3} \\ \textbf{4} \\ \textbf{4} \\ \textbf{3} \\ \textbf{4} \\ \textbf{4} \\ \textbf{5} \\ \textbf{4} \\ \textbf{4} \\ \textbf{5} \\ \textbf{5} \\ \textbf{4} \\ \textbf{5} \\ \textbf{5} \\ \textbf{5} \\ \textbf{4} \\ \textbf{5} \\ $	Methods to Solve Lin to solve each system of equ 2. $\begin{vmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{vmatrix}$ $\frac{\left(-3, -3\frac{1}{2}\right)}{5 \cdot \left[ \frac{x + y = 5}{3x + 2y = 4} \right]}$ $\frac{\left(-6, 11\right)}{6 \cdot \left[ \frac{5x - 5y = 6}{4x + 7y = -4} \right]}$	near Systems nations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ 6. $\begin{cases} \frac{81}{4}, -2 \\ 4x - 2y = 21 \end{cases}$ (7, 3 $\frac{1}{2}$ ) 9. $\begin{cases} 2x - 8y = 24 \\ x - 21 = 16y \end{cases}$	LESSON       Reteach         32       Using Algebrai         To use the substitution meth       Solve one equation for one         1.       Solve one equation for one         2.       Substitute this expression         3.       Solve for the other variable         4.       Substitute the value of the         5.       Solve for the other variable         6.       Check the values in both e         Use the substitution method when the coefficient of one of the variables is 1 or -1.         Substitute $x = 5$ into $y = x + 4$	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. into the other equation. a. known variable in the equation e. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul 3x = 15 x = 5 2 and solve for <i>y</i> : $y = x + 2$	inear Systems equations: a in Step 1. Use this equation. It is solved for <i>y</i> . bstitute <i>x</i> + 2 for <i>y</i> . aplify and solve for <i>x</i> .
$\begin{array}{c c} \hline \textbf{LESSON} & \textbf{Practice C} \\ \hline \textbf{32} & \textbf{Using Algebraic} \\ \hline \textbf{Use substitution or elimination} \\ \textbf{1.} & \begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix} \\ \hline \textbf{4.} & \begin{bmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{bmatrix} \\ \hline \textbf{4.} & \begin{bmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{bmatrix} \\ \hline \textbf{6.} & \begin{bmatrix} -8\frac{1}{2}, 1 \\ 5x = 4y \end{bmatrix} \\ \hline \textbf{6.} & 7\frac{1}{2} \end{bmatrix}$	Methods to Solve Lin to solve each system of equ 2. $\begin{vmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{vmatrix}$ $\frac{\left(-3, -3\frac{1}{2}\right)}{5 \cdot \left[\frac{x + y = 5}{3x + 2y = 4}\right]}$ $\frac{\left(-6, 11\right)}{6x - 5y = 6}$ $\frac{\left(5x - 5y = 6 \\ 4x + 7y = -4\right)}{\left(\frac{2}{6}, -\frac{4}{5}\right)}$	near Systems nations. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ 6. $ \frac{\left(8\frac{1}{4}, -2\right)}{\left(\frac{3x + 4y = 35}{4x - 2y = 21}\right)} $ 9. $ \left(\frac{(7, 3\frac{1}{2})}{(x - 21 = 16y)}\right) $ (9, $-\frac{3}{4}$ )	LESSON       Reteach         32       Using Algebrai         To use the substitution meth       Solve one equation for one         1.       Solve one equation for one         2.       Substitute this expression         3.       Solve for the other variable         4.       Substitute the value of the         5.       Solve for the other variable         6.       Check the values in both e         Use the substitution method when the coefficient of one of the variables is 1 or $-1$ .         Substitute $x = 5$ into $y = x + 1$	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. into the other equation. e. aquations. $\begin{cases} y = x + 2 \\ 2x + y = 17 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x = 15 \\ x = 5 \\ 2 \text{ and solve for } y \cdot y = x + 2 \\ y = 5 + 2 \end{cases}$	inear Systems equations: h in Step 1. Use this equation. It is solved for <i>y</i> . bstitute x + 2 for <i>y</i> . hplify and solve for <i>x</i> .
LESSON Jesson Jesson Jesson Jesson Jesson Lesson Jesso	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} (-3, -3\frac{1}{2})\\ x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{bmatrix}$ $\begin{pmatrix} \frac{2}{5}, -\frac{4}{5} \end{bmatrix}$	near Systems nations. 3. $\begin{bmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{bmatrix}$ 6. $\frac{\left(8\frac{1}{4}, -2\right)}{\left(\frac{3x + 4y = 35}{4x - 2y = 21}\right)}$ 9. $\left(\frac{2x - 8y = 24}{x - 21 = 16y}\right)$ $\left(9, -\frac{3}{4}\right)$	Uses       Reteach         32       Using Algebrai         To use the substitution meth       1. Solve one equation for on         1. Solve one equation for on       3. Solve for the other variable         4. Substitute the value of the       5. Solve for the other variable         6. Check the values in both e       1.         Use the substitution method when the coefficient of one of the variables is 1 or -1.       1.         Substitute $x = 5$ into $y = x + 1$ 1.	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e. variables in the equation y = x + 2 2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul 3x = 15 x = 5 2 and solve for y: $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5 7)	inear Systems aquations: n in Step 1. Use this equation. It is solved for y. bistitute x + 2 for y. nplify and solve for x.
Itesson         Practice C           32         Using Algebraic           Use substitution or elimination           1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4)           4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ (6, $7\frac{1}{2})$ Solve.           10. Cora bought 4 pounds of nut	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\frac{\left(-3, -3\frac{1}{2}\right)}{\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}}$ $\frac{\left(-6, 11\right)}{8} \cdot \begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4\\ \underline{\left(\frac{2}{5}, -\frac{4}{5}\right)} \end{bmatrix}$ s and 2 pounds of raisins for \$2	mear Systems nations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ 6. $\frac{\left(8\frac{1}{4}, -2\right)}{\left(3x + 4y = 35 \\ 4x - 2y = 21\right)}$ 9. $\frac{\left(7, 3\frac{1}{2}\right)}{\left(x - 21 = 16y\right)}$ (9, $-\frac{3}{4}$ ) 23.50. Mark	Uisson       Reteach         32       Using Algebrai         To use the substitution meth       1. Solve one equation for on         1. Solve one equation for on       3. Solve for the other variable         4. Substitute the value of the       5. Solve for the other variable         6. Check the values in both of       0. Check the values in both of         Use the substitution method when the coefficient of one of the variables is 1 or -1.       1. Substitute $x = 5$ into $y = x + 1$ The solution of the system is to the check using both equations:       1. Substitute $x = 5$ into $y = x + 1$	c Methods to Solve L od to solve a system of linear of e variable. into the other equation. e. known variable in the equation e. guations. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sut 3x + 2 = 17 Sut 3x + 2 = 17 Sut 3x = 15 x = 5 2 and solve for y: $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2;$ $7 \stackrel{?}{=} (5)$	<b>Inear Systems</b> equations: In in Step 1. Use this equation. It is solved for y. Distribute $x + 2$ for y. splify and solve for x.
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LESSON Practice C 32 Using Algebraic Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\boxed{2x + 20y = 3} \\ 2x = -7y - 10$ $\frac{(-8\frac{1}{2}, 1)}{(2x = -7y - 10)}$ 7. $\boxed{\frac{3\frac{1}{4}x + 3y = 42}{5x = 4y}} $ Solve. 10. Cora bought 4 pounds of nuts bought 2 pounds of nuts bought 2 pounds of nuts and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bought 2 pounds of the nuts, <i>n</i> , and the bounds of nuts and the bounds of nuts, <i>n</i> , and the bounds of nuts and the bounds of the nuts, <i>n</i> , and the bounds of nuts and the bounds of the nuts, <i>n</i> , and the bounds of nuts and the bounds of the nuts, <i>n</i> , and the bounds of nuts and the bounds of the nuts, <i>n</i> , and the bounds of nuts and the bounds of nuts and the bounds of the nuts, <i>n</i> , and the bounds of the nuts, <i>n</i> , and the bounds of the nuts of the nuts and the bounds of the nuts of the nuts and the bounds of the nuts and the bo	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} (-3, -3\frac{1}{2}) \\ (x + y = 5) \\ (3x + 2y = 4) \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \\ (\frac{2}{5}, -\frac{4}{5}) \end{bmatrix}$ s and 2 pounds of raisins for \$1.50 ns that represents the the price of the raisins, r.	The ear Systems The ear Systems The initial state is a state in the initial state is a state is	Uisson         Reteach           32         Using Algebrai           To use the substitution meth         1. Solve one equation for one           2. Substitute this expression         3. Solve for the other variable           4. Substitute the value of the         5. Solve for the other variable           6. Check the values in both of         when the           coefficient of one of the         variables is 1 or -1.           Substitute $x = 5$ into $y = x +$ The solution of the system is the check using both equations:           Use substitution to solve eace         Use substitution to solve eace	<i>c</i> Methods to Solve L od to solve a system of linear of a variable. into the other equation. e. known variable in the equation e.  2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sull 3x + 2 = 17 Sull 3x = 15 x = 5 2 and solve for y: $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2;  7 \stackrel{?}{=} (5) \cdot 7$ 2x + y = 17;  2(5) + 7 th system of equations.	<b>inear Systems</b> equations: a in Step 1. Use this equation. It is solved for y. bstitute $x + 2$ for y. hplify and solve for x. + 2;  7 = 74 $\stackrel{?}{=} 17;  17 = 174$
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<b>Itesson</b> <b>Practice C</b> <b>32</b> <b>Use substitution or elimination</b> 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{2}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>5.</b> $(6, 7\frac{1}{2})$ <b>Solve.</b> 10. Cora bough 4 pounds of nut bough 2 pounds of nuts and a. Write a system of equation price of the nuts, <i>n</i> , and the bough 2 pounds of nuts and a. Unite a system. How munum nuts and a pound of raising the system. How munum nuts and a pound of raising the system of the nuts. The system of the nuts o	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} -3, -3\frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{bmatrix}$ $(\frac{2}{5}, -\frac{4}{5})$ 5. and 2 pounds of raisins for \$18.50 as and 2 pounds of raisins for \$18.50 as that represents the reprice of the raisins, <i>r</i> uch should a pound of is cost together?	The ear Systems The ear Systems The initial stations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ 6. $\begin{cases} \frac{3x + 4y = 35}{4x - 2y = 21} \\ \frac{(7, 3\frac{1}{2})}{9} \end{cases}$ 9. $\begin{cases} 2x - 8y = 24 \\ x - 21 = 16y \end{cases}$ 9. $\begin{cases} 2x - 8y = 24 \\ x - 21 = 16y \end{cases}$ 23.50. Mark $\begin{cases} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{cases}$ \$7.00	<b>Reteach</b> <b>32</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variable 4. Substitute the value of the 5. Solve for the other variable 6. Check the values in both e coefficient of one of the variables is 1 or -1. Substitute $x = 5$ into $y = x +$ The solution of the system is the Check using both equations: <b>Use substitution to solve eace</b> 1. $\begin{bmatrix} y = 2x - 5 \\ 3x + y = 10 \end{bmatrix}$ Use $y = 2x - 5$ .	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul 3x + 2 = 17 Sul 3x + 2 = 17 Sul 3x = 15 2 and solve for $y: y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2;  7 \stackrel{?}{=} (5) \cdot 7$ 2x + y = 17;  2(5) + 7 th system of equations. 2. $\begin{vmatrix} 3x + 2 \\ x - y = \\ 5 \end{vmatrix}$ Solve for	<i>inear Systems</i> equations: a in Step 1. Use this equation. It is solved for y. bistitute $x + 2$ for y. aplify and solve for x. $2 \pm 17;  17 = 17\sqrt{2}$ y = 1 = 2 x; x - y = 2.
Itesson       Practice C         32       Using Algebraic         Use substitution or elimination         1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4)         4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ (6, $7\frac{1}{2})$ Solve.         10. Cora bought 4 pounds of nut bought 2 pounds of nuts and a. Write a system of equatio price of the nuts, <i>n</i> , and the b. Solve the system. How must and a pound of raisir         11. Kate and Riley are reading the per minute, and Riley reads $\frac{5}{2}$	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ $\frac{\left(-3, -3\frac{1}{2}\right)}{\left(x + y = 5\right)}$ 5. $\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ $\frac{\left(-6, 11\right)}{\left(x + 7y = -4\right)}$ $\frac{\left(\frac{2}{5}, -\frac{4}{5}\right)}{\left(\frac{2}{5}, -\frac{4}{5}\right)}$ s and 2 pounds of raisins for \$18.50 ns that represents the the price of the raisins, <i>r</i> uch should a pound of the societ together? the same book. Kate reads $\frac{1}{3}$ page per minute. Kate has all	near Systems nations. 3. $\begin{bmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{bmatrix}$ 6. $\begin{bmatrix} 3x + 4y = 35 \\ 4x - 2y = 21 \end{bmatrix}$ 9. $\begin{bmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{bmatrix}$ 23.50. Mark $\begin{bmatrix} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{bmatrix}$ \$7.00 ready	<b>Reteach</b> <b>32</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variable 4. Substitute the value of the 5. Solve for the other variable 6. Check the values in both of method when the coefficient of one of the variables is 1 or -1. Substitute $x = 5$ into $y = x + 1$ The solution of the system is to Check using both equations: <b>Use substitution to solve eaco</b> 1. $\begin{cases} y = 2x - 5 \\ 3x + y = 10 \end{cases}$ Use $y = 2x - 5$ . 3x + 2x - 5 = 10	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. Into the other equation. a. known variable in the equation e. squations. $\begin{bmatrix} y = x + 2 \\ 2x + y = 17 \end{bmatrix}$ $2x + y = 17$ $2x + (x + 2) = 17 \qquad Sult 3x + 2 = 17 \qquad Sult 3x = 15  x = 5 \\ 2 and solve for y: y = x + 2  y = 5 + 2  y = 5 + 2  y = 5 + 2  y = 7 \\ the ordered pair (5, 7). y = x + 2; \qquad 7 \stackrel{?}{=} (5) + 7 \\ 2x + y = 17; \qquad 2(5) + 7 \\ che system of equations. 2. \begin{bmatrix} 3x + 2 \\ x - y = \\ Solve for \\ x = \end{bmatrix}$	<i>inear Systems</i> equations: a in Step 1. Use this equation. It is solved for y. bostitute $x + 2$ for y. aplify and solve for x. + 2;  7 = 7y $\stackrel{?}{=} 17;  17 = 17y$ y = 1 = 2 x; x - y = 2. y + 2
<b>ILESSON Practice C</b> <b>32</b> <i>Using Algebraic</i> Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>5olve.</b> 10. Cora bought 4 pounds of nut bought 2 pounds of nuts and a. Write a system of equation price of the nuts, <i>n</i> , and the b. Solve the system. How munnus and a pound of raising 11. Kate and Riley are reading the perminute, and Riley read and the read the	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ $(-3, -3\frac{1}{2})$ 5. $\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{bmatrix}$ $(\frac{2}{5}, -\frac{4}{5})$ s and 2 pounds of raisins for \$18.50 ns that represents the the price of the raisins, <i>r</i> uch should a pound of us cost together? the same book. Kate reads $\frac{1}{3}$ page per minute. Kate has all as read 30 pages. If they both <i>r</i> allow will certain the price both <i>r</i>	The ear Systems That in the second state is	<b>Reteach</b> <b>32</b> Using Algebrai To use the substitution meth 1. Solve one equation for one 2. Substitute this expression 3. Solve for the other variable 4. Substitute the value of the 5. Solve for the other variable 6. Check the values in both of which of the other variable 6. Check the values in both of Use the substitution method when the coefficient of one of the variables is 1 or -1. Substitute $x = 5$ into $y = x +$ The solution of the system is to Check using both equations: <b>Use substitution to solve eace</b> 1. $\begin{bmatrix} y = 2x - 5 \\ 3x + y = 10 \end{bmatrix}$ Use $y = 2x - 5$ . $3x + \frac{2x - 5}{2} = 10$ 5x - 5 = 10	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. Into the other equation. a. known variable in the equation e. guations. $\begin{bmatrix} y = x + 2 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x = 15 \\ x = 5 \\ 2 \text{ and solve for } y \cdot y = x + 2 \\ y = 5 + 2 \\ y = 7 \\ be ordered pair (5, 7).$ $y = x + 2;  7 \stackrel{2}{=} (5) + 7 \\ 2x + y = 17;  2(5) + 7 \\ 2x + y = 17;  2(5) + 7 \\ cm + y = $	<b>Inear Systems</b> equations: an in Step 1. Use this equation. It is solved for y. bostitute $x + 2$ for y. public and solve for x. + 2;  7 = 7y' $\stackrel{?}{=} 17;  17 = 17y'$ y = 1 = 2 x : x - y = 2. y + 2 2 : y + 2 = 1
<b>ILESSON Practice C</b> <b>32</b> <i>Using Algebraic</i> Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $\frac{(-8\frac{1}{2}, 1)}{(2x = -7y - 10)}$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>5olve</b> . 10. Cora bought 4 pounds of nut bought 2 pounds of nuts and a. Write a system of equation price of the nuts, <i>n</i> , and the b. Solve the system. How munuts and a pound of raising the reading together, eventually for the reading together, eventually for the system. The field of the nuts of the system of the nuts of the nuts and the set of the nuts and the set of the nuts and the set of the nuts and a pound of the nuts	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} (-3, -3\frac{1}{2}) \\ (x + y = 5) \\ (3x + 2y = 4) \end{bmatrix}$ 6. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \\ (\frac{2}{5}, -\frac{4}{5}) \end{bmatrix}$ 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \\ (\frac{2}{5}, -\frac{4}{5}) \end{bmatrix}$ s and 2 pounds of raisins for \$18.50 ns that represents the tee price of the raisins, r uch should a pound of is cost together? the same book. Kate reads $\frac{1}{3}$ page per minute. Kate has alta as read 30 pages. If they both r Rilley will catch up to Kate.	The ear Systems That in the set of the set	ReteachBeteachUsing AlgebraiTo use the substitution meth1. Solve one equation for oneSolve one equation for oneSubstitute this expressionSolve for the other variableCheck the values in both ofUse the substitution method when the coefficient of one of the variables is 1 or -1.Substitute $x = 5$ into $y = x +$ The solution of the system is the Check using both equations:Use substitution to solve each $3x + y = 10$ Use $y = 2x - 5$ . $3x + \frac{2x - 5}{2x - 5} = 10$ $5x - 5 = 10$	<i>c</i> Methods to Solve L od to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e.  2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sult 3x + 2 = 17 Sult 3x + 2 = 17 Sult 3x = 5 2 and solve for <i>y</i> : $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2$ ; $7 \stackrel{?}{=} (5) + 7$ the system of equations. 2. $\begin{vmatrix} 3x + 2 \\ x - y = \end{vmatrix}$ Solve for $x = \_$ $3(\_y + ]$	<b>Inear Systems</b> equations: a in Step 1. Use this equation. It is solved for y. bstitute $x + 2$ for y. applify and solve for x. $+2;  7 = 7y$ $\frac{2}{2} 17;  17 = 17y$ $y = 1$ $x  x - y = 2.$ $y + 2$ $\frac{2}{2} + 2y = 1$
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LESSON Practice C 32 Using Algebraic Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ $(6, 7\frac{1}{2})$ Solve. 10. Cora bought 4 pounds of nuts and a. Write a system of equation price of the nuts, <i>n</i> , and the b. Solve the system. How munts and a pound of raising 11. Kate and Riley are reading the reading together, eventually for a solve the reading the reading together, eventually for a solve the system of the reading together, eventually for a solve the solve the reading together, eventually for a solve the solve the solve the reading together, eventually for a solve the solve th	Methods to Solve Lin to solve each system of equi- 2. $\begin{bmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} (-3, -3\frac{1}{2}) \\ (-3, -3\frac{1}{2}) \end{bmatrix}$ 5. $\begin{bmatrix} x + y = 5 \\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6 \\ 4x + 7y = -4 \\ (\frac{2}{5}, -\frac{4}{5}) \end{bmatrix}$ s and 2 pounds of raisins for \$18.50 ns that represents the eprice of the raisins, <i>r</i> uch should a pound of is cost together? ne particular to \$13.50 ns that represents the eprice of the raisins, <i>r</i> uch should a pound of is cost together? ne particular to \$13.50 ns that represents the eprice of the raisins, <i>r</i> uch should a pound of is cost together? ne particular to \$13.50 ns that represents the eprice of the raisins, <i>r</i> uch should a pound of is cost together? ns are 30 pages. If they both raises are read 30 pages. If they both raises are as a fully will catch up to Kate. cur? 102 they read when Riley catches u	The ear Systems The ear Systems The ear Systems The ear Systems 3. $\left  \begin{array}{c} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{array} \right ^{3}$ 6. $\left  \begin{array}{c} \frac{3x + 4y = 35}{4x - 2y = 21} \\ \frac{7}{4x - 2y = 21} \\ \frac{7}{4x - 2y = 21} \\ \frac{9}{2x - 8y = 24} \\ \frac{9}{x - 21 = 16y} \\ \frac{9}{2x - 21 = 16y} \\ \frac{1}{2x - 21} \\ \frac{1}{2$	Reteach <b>BeteachSolve One equation for one</b> Solve one equation for oneSolve one equation for oneSubstitute the substitution methSolve for the other variableCheck the values in both ofUse the substitution meth of when the coefficient of one of the variables is 1 or -1.Substitute $x = 5$ into $y = x +$ The solution of the system is to Check using both equations:Use substitution to solve eaco1. $ y  = 2x - 5$ $3x + y = 10$ Use $y = 2x - 5$ $3x + 2x - 5 = 10$ $5x - 5 = 10$ $x = 3$ $y = 2(3) - 5$	<i>c</i> Methods to Solve L od to solve a system of linear of a variable. into the other equation. a. known variable in the equation a.  2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sulf 3x + 2 = 17 Sulf 3x = 15 x = 5 2 and solve for y: $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2;$ $7 \stackrel{?}{=} (5) \cdot 7$ 2x + y = 17; $2(5) + 7th system of equations.2. \begin{cases} 3x + 2 \\ x - y = 3 \end{cases}Solve forx = \frac{3}{3(y + 1)}$	<b>Inear Systems</b> equations: a in Step 1. Use this equation. It is solved for y. by by the solve for x. $+ 2;  7 = 7\sqrt{2}$ $2  17;  17 = 17\sqrt{2}$ $y = 1$ $y = -1$ $y = -1$ $x = -1 + 2 = 1$ $(4 - 1)$
<b>Itesson Practice C</b> <b>32</b> <i>Using Algebraic</i> Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $\frac{(-8\frac{1}{2}, 1)}{(-8\frac{1}{2}, 1)}$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>5olve.</b> 10. Cora bought 4 pounds of nut bought 2 pounds of nut bought 2 pounds of nut and a. Write a system of equatio price of the nuts, <i>n</i> , and the b. Solve the system. How mu- nuts and a pound of raising 11. Kate and Riley are reading the per minute, and Riley reads (2) read 70 pages, while Riley how reading together, eventually a. On what page will that occu- b. How many minutes have the	Methods to Solve Lin to solve each system of equi- 2. $\begin{bmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} -3, -3\frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} x + y = 5 \\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6 \\ 4x + 7y = -4 \end{bmatrix}$ $\begin{pmatrix} \frac{2}{5}, -\frac{4}{5} \end{bmatrix}$ s and 2 pounds of raisins for \$\$ 4 pounds of raisins for \$\$18.50, ns that represents the perice of the raisins, <i>r</i> uch should a pound of is cost together? The same book. Kate reads $\frac{1}{3}$ page per minute. Kate has all as read 30 pages. If they both r Billey will catch up to Kate. cur? 102 they read when Riley catches u 96	near Systems nations. 3. $\begin{pmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{pmatrix}$ 6. $\frac{\left(8\frac{1}{4}, -2\right)}{\left(3x + 4y = 35 \\ 4x - 2y = 21 \right)}$ 9. $\begin{pmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{pmatrix}$ 23.50. Mark $\begin{pmatrix} 9, -\frac{3}{4} \end{pmatrix}$ 23.50. Mark $\begin{pmatrix} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{pmatrix}$ \$7.00 nge ready resume	Reteach <b>BeteachSolve Origon Algebrai</b> To use the substitution meth1. Solve one equation for one2. Substitute this expression3. Solve for the other variable6. Check the values in both of6. Check the values in both of9. Solve for the other variable6. Check the values in both of9. Solve for the other variable9. Check the values in both of9. Solve for the other variable9. Check the values in both of9. Solve for the other variables is 1 or -1.9. Substitute $x = 5$ into $y = x + 1$ 9. The solution of the system is to9. Check using both equations:9. Use substitution to solve eaco1. $\begin{vmatrix} y = 2x - 5 \\ 3x + y = 10 \end{vmatrix}$ 9. Use $y = 2x - 5$ 9. $3x + 2x - 5 = 10$ 9. $5x - 5 = 10$ 9. $x = 3$ 9. $y = 2(3) - 5$ 0. Ordered pair solution:	c Methods to Solve L         od to solve a system of linear of evariable.         into the other equation.         e.         known variable in the equations. $2x + y = 17$ $3x + 2 = 17$ $3x = 15$ $x = 5$ 2 and solve for y: $y = x + 2$ $y = 5 + 2$ $y = 7$ the ordered pair (5, 7). $y = x + 2;$ $2x + y = 17;$ $2(5) + 7$ the system of equations. $2.$ $\begin{bmatrix} 3x + 2 \\ x - y = 3 \end{bmatrix}$ Solve for $x = \_$ $3(\underline{y + 1})$ $= 1$ $(3, 1)$	inear Systems equations: a in Step 1. Use this equation. It is solved for y. bstitute x + 2 for y. applify and solve for x. $\frac{1}{2} \frac{7}{17} = \frac{7}{17}$ $\frac{2}{2} \frac{17}{17} = \frac{17}{17}$ $\frac{y = 1}{2}$ $\frac{2}{2} + 2y = 1$ $\frac{y = -1}{x = -1 + 2 = 1}$ pair solution: (1, -1)
<b>Itessen Practice C</b> <b>32</b> <i>Using Algebraic</i> Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $\frac{(-8\frac{1}{2}, 1)}{(2x + 20y = 3)}$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>50ive.</b> 10. Cora bought 4 pounds of nut bought 2 pounds of nut bought 2 pounds of nuts and a. Write a system of equatio price of the nuts, <i>n</i> , and the b. Solve the system. How munts and a pound of raising reading to pages, while Riley has reading to gether, eventually free a difference of the nuts of the reading together, eventually free a. On what page will that occurs.	Methods to Solve Lin to solve each system of equi- 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ $(-3, -3\frac{1}{2})$ 5. $\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{bmatrix}$ $(\frac{2}{5}, -\frac{4}{5})$ s and 2 pounds of raisins for \$3 4 pounds of raisins for \$318.50, ns that represents the the price of the raisins, <i>r</i> uch should a pound of is cost together? be same book. Kate reads $\frac{1}{3}$ pag $\frac{3}{4}$ page per minute. Kate has all a read 30 pages. If they both <i>r</i> Riley will catch up to Kate. cur? <u>102</u> they read when Riley catches u <u>96</u>	The ear Systems The ear Systems The ear Systems The ear Systems 3. $\begin{pmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{pmatrix}$ 6. $\begin{pmatrix} 3x + 4y = 35 \\ 4x - 2y = 21 \end{pmatrix}$ 7. $\begin{pmatrix} 7, 3\frac{1}{2} \end{pmatrix}$ 9. $\begin{pmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{pmatrix}$ 23.50. Mark 1. $\begin{pmatrix} 9, -\frac{3}{4} \end{pmatrix}$ 23.50. Mark 2. $\begin{pmatrix} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{pmatrix}$ \$7.00 The ear Systems The ear Systems 1. $\begin{pmatrix} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{pmatrix}$ 1. $\begin{pmatrix} 9 - 3 \\ $	Reteach <b>BeteachSolve Constitution Meth</b> 1. Solve one equation for one2. Substitute this expression3. Solve for the other variable6. Check the values in both of6. Check the values in both of9. Solve for the other variable6. Check the values in both of9. Solve for the other variable6. Check the values in both of9. Solve for the other variable9. Check the values in both of9. Solve for the other variable9. Check using both equations:9. Substitution of the system is to9. Check using both equations:9. Use substitution to solve eaco1. $ y = 2x - 5 $ $ 3x + y = 10 $ 9. Use $y = 2x - 5$ $3x + \frac{2x - 5}{2} = 10$ $5x - 5 = 10$ $x = 3$ $y = 2(3) - 5 $ Ordered pair solution:	c Methods to Solve L         od to solve a system of linear of evariable.         into the other equation.         e.         known variable in the equations. $2x + y = 17$ $3x + 2 = 17$ $3x + 2 = 17$ $3x + 2 = 17$ $3x = 15$ $x = 5$ 2 and solve for y: $y = x + 2$ $y = 5 + 2$ $y = 7$ the ordered pair (5, 7). $y = x + 2$ ; $2x + y = 17$ ; $2(5) + 7$ $2x + y = 17$ ; $2(5) + 7$ $x + 2;$ $y = 5 + 2;$ $y = 7$ the ordered pair (5, 7). $y = x + 2;$ $2 \cdot [ 3x + 2; ] x - y = 3;$ Solve for $x = \_$ $3(\_y + ]$ $3(\_y + ]$ $3(\_y + ]$ $3(\_y + ]$ $3(\_1)$	inear Systems equations: a in Step 1. Use this equation. It is solved for y. bistitute x + 2 for y. applify and solve for x. $\frac{1}{2} \frac{7}{17} = \frac{7}{17}$ $\frac{2}{17} \frac{17}{17} = \frac{17}{17}$ $\frac{y = 1}{2}$ $\frac{2}{2} + 2y = 1$ $\frac{y = -1}{x = -1 + 2 = 1}$ pair solution: (1, -1)
<b>Itessen</b> Practice C <b>320</b> Using Algebraic Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $\frac{(-8\frac{1}{2}, 1)}{(-8\frac{1}{2}, 1)}$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ Solve. 10. Cora bought 4 pounds of nut bought 2 pounds of nuts and a. Write a system of equatio price of the nuts, <i>n</i> , and th b. Solve the system. How mun- nuts and a pound of raisin 11. Kate and Riley rareading the per minute, and Riley rates read 70 pages, while Riley have reading to gether, eventually fa. On what page will that occ b. How many minutes have the	Methods to Solve Lin to solve each system of equ 2. $\begin{bmatrix} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} x + y = 5 \\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6 \\ 4x + 7y = -4 \end{bmatrix}$ $\begin{pmatrix} \frac{2}{5}, -\frac{4}{5} \end{bmatrix}$ s and 2 pounds of raisins for \$3. 4 pounds of raisins for \$18.50. ns that represents the reprice of the raisins, <i>r</i> ach should a pound of its cost together? the same book. Kate reads $\frac{1}{3}$ pag $\frac{3}{4}$ page per minute. Kate has all as read 30 pages. If they both r Riley will catch up to Kate. cur? 102 they read when Riley catches u <u>96</u>	The ear Systems The ear Systems The ear Systems The ear Systems 3. $\begin{pmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{pmatrix}$ 6. $\begin{pmatrix} 3x + 4y = 35 \\ 4x - 2y = 21 \end{pmatrix}$ 9. $\begin{pmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{pmatrix}$ 9. $\begin{pmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{pmatrix}$ 23.50. Mark 1. $\begin{pmatrix} 9, -\frac{3}{4} \end{pmatrix}$ 23.50. Mark 2. $\begin{pmatrix} 4n + 2r = 23.5 \\ 2n + 4r = 18.5 \end{pmatrix}$ \$7.00 The ready resume	Reteach <b>BeteachSolve Using Algebrai</b> To use the substitution meth1. Solve one equation for one2. Substitute this expression3. Solve for the other variable6. Check the values in both e6. Check the values in both e9. Solve for the other variable6. Check the values in both e9. Solve for the other variable6. Check the values in both e9. Solve for the other variable9. Check the values in both e9. Solve for the other variable9. Check using both equations:9. Substitute $x = 5$ into $y = x + 1$ 9. The solution of the system is to9. Check using both equations:9. Use substitution to solve each1. $ y = 2x - 5 $ $ 3x + y = 10 $ 9. Use $y = 2x - 5$ . $3x + \frac{2x - 5}{3x + 2x - 5} = 10$ 9. $y = 2(3) - 5 $ 9. Ordered pair solution:	c Methods to Solve L od to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e. 2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sul 3x + 2 = 17 Sul $y = x + 2;  7 \stackrel{?}{=} (5) \cdot 7$ The ordered pair (5, 7). $y = x + 2;  7 \stackrel{?}{=} (5) \cdot 7$ the ordered pair (5, 7). $y = x + 2;  7 \stackrel{?}{=} (5) \cdot 7$ Solve for $x = \frac{3(\frac{y}{+})}{3(\frac{y}{+})}$ $= \frac{1}{(3, 1)}$ Ordered	inear Systems equations: a in Step 1. Use this equation. It is solved for y. bistitute $x + 2$ for y. applify and solve for x. y = 1 $z = 2$ $x - y = 2$ $y + 2$ $y = -1$ $x = -1 + 2 = 1$ pair solution: $(1, -1)$
<b>Practice C</b> <b>32</b> Using Algebraic Use substitution or elimination 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ <b>Solve.</b> 10. Cora bought 4 pounds of nut bought 2 pounds of nuts and a. Write a system of equation price of the nuts, <i>n</i> , and the bought 2 pounds of nuts and a. Write a system. How munuts and a pound of raising the reading together, eventually for the system. How munuts and a pound of raising the reading together, eventually for the and the price of the nuts, and the price of the nuts and a pound of the system. How munuts and a pound of raising together, eventually for the and the price of the nuts and a pound of the price of the nuts and a pound of the system. How munuts and a pound of the price of the nuts and a pound of the system. How munuts and a pound of the price of the nuts and a pound of the system. How munuts and a pound of the price of the nuts and a pound of the system. How munuts and a pound of the price of the system aread the price of the system aread the price of the nuts and a pound of the system. How munuts and a pound of the system aread the price of the system of the system of the system aread the price of th	Methods to Solve Lin to solve each system of equi- 2. $\begin{bmatrix} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{bmatrix}$ 5. $\begin{bmatrix} x + y = 5\\ 3x + 2y = 4 \end{bmatrix}$ (-6, 11) 8. $\begin{bmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{bmatrix}$ ( $\frac{2}{5}, -\frac{4}{5}$ ) s and 2 pounds of raisins for \$18.50 ns that represents the the price of the raisins, r uch should a pound of us cost together? the same book. Kate reads $\frac{1}{3}$ paga per minute. Kate has all as read 30 pages. If they both r rilley will catch up to Kate. cur? 102 they read when Riley catches u  96	Hear Systems hations. 3. $\begin{vmatrix} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{vmatrix}$ 6. $\frac{(8\frac{1}{4}, -2)}{(4x - 2y = 21)}$ 9. $\begin{vmatrix} 2x - 8y = 24 \\ x - 21 = 16y \end{vmatrix}$ (9, $-\frac{3}{4}$ ) 23.50. Mark (9, $-\frac{3}{4}$ ) 23.50. Mark (14n + 2r = 23.5) (2n + 4r = 18.5) (37.00) Alterna State	<b>Reteach</b> <b>32</b> Using Algebrai To use the substitution meth 1. Solve one equation for one 2. Substitute this expression 3. Solve for the other variable 4. Substitute the value of the 5. Solve for the other variable 6. Check the values in both of which of the other variable 6. Check the values in both of Use the substitution method when the coefficient of one of the variables is 1 or -1. Substitute $x = 5$ into $y = x +$ The solution of the system is the Check using both equations: <b>Use substitution to solve eace</b> 1. $\begin{vmatrix} y = 2x - 5 \\ 3x + y = 10 \\ Use y = 2x - 5 \end{vmatrix}$ $3x + \frac{2x - 5}{2} = 10$ 5x - 5 = 10 x = 3 y = 2(3) - 5 Ordered pair solution:	c Methods to Solve L od to solve a system of linear of e variable. Into the other equation. e. known variable in the equation e. y = x + 2 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sult 3x + 2 = 17 Sult 3x = 15 x = 5 2 and solve for y: $y = x + 2$ y = 5 + 2 y = 7 the ordered pair (5, 7). $y = x + 2;$ $7 \stackrel{?}{=} (5) + 7$ 2x + y = 17; $2(5) + 7th system of equations.2. \begin{vmatrix} 3x + 2 \\ x - y = 3 \end{vmatrix}Solve forx = \frac{3(y + y)}{3(y + 1)}= \frac{1}{(3, 1)}Ordered$	<b>inear Systems</b> equations: a in Step 1. Use this equation. It is solved for y. bottitute $x + 2$ for y. applify and solve for x. + 2; $7 = 74$ 2 17; $17 = 174y = 12x - x - y = 2$ . y + 2 2 ) $+ 2y = 1y = -1x = -1 + 2 = 1pair solution: (1, -1)Holt Algebra 2$

<b>Reteach</b>			
3-2 Using Algebraic Methods t	o Solve Linear Systems	3-2 Using Linear Systems to F	Find the Equation of a Line
(continued)		Linear systems of equations can be used to find	d the equation of a line.
To use the elimination method to solve a syst	em of linear equations:	Determine the equation of the line passing through $(2, 14)$ using $y = mx + b$ . Substituting the x- and y-and y-	ugh points (-4, 2) and nd v-coordinates for the
<ol> <li>Add or subtract the equations to eliminate of 2. Solve the resulting equation for the other values</li> </ol>	ne variable. Iriable.	values of x and y in the slope-intercept form of	the line gives the system.
3. Substitute the value for the known variable	into one of the original equations.	$ \begin{cases} 2 = -4m + b \\ 14 = 2m + b \end{cases} $	
<ol> <li>Solve for the other variable.</li> <li>Check the values in both equations.</li> </ol>		Solve this system to find the slope and y-intercert through points $(-4, 2)$ and $(2, 14)$ Finding m	ept of the line passing $-2$ and $b = 10$ from the
3x + 2y = 7	The <i>y</i> terms have	table or the graph allows you to write the equation	ion of the line $y = 2x + 10$ .
Use the elimination $5x - 2y = 1$	so add.		16. b
coefficients of one of $3x + 2y = 3x + 2y = 3$	Add the equations.		
the variables are the	<u>-</u>	2 = -4m + b $14 = 2m + b$	12 V
	8 Solve for x.	m b b	s A
X =		0 2 14	
Substitute $x = 1$ into $3x + 2y = 7$ and solve for	3(1) + 2y - 7		4
	2y = 4		-10-8-6-4-20/2-4-6-8-10
	y = 2	4 18 6	
The solution to the system is the ordered pair (	1, 2).	Use a system of equations to find the equation	on of the line passing
Check using both equations: $3x + 2$	$5y = 7 \qquad 5x - 2y = 1$	through the given points.	
3(1) + 2(2)	$2) \stackrel{?}{=} 7 \qquad 5(1) - 2(2) \stackrel{?}{=} 1$	1. (5, 7) and (1, 19)	y = -3x + 22
	$7 = 7\checkmark \qquad 1 = 1\checkmark$	2 (-2 4) and (2 8)	y = x + 6
Use elimination to solve each system of equa	ations.	2 (2 5) and (5 1)	y = 3x - 14
3. $\begin{cases} 2x + y = 1 \\ 2x + 2y = 5 \end{cases}$	4. $\begin{cases} 3x + 4y = 13 \\ 5x + 4y = -21 \end{cases}$	<b>3.</b> (3,-3) and (3, 1)	$v = -2.5 v \pm 3.5$
(-2x - 3y - 5)	(3x - 4y2)	<b>4.</b> (1, 1) and (5, -9)	y = -2.3x + 3.3
2x + y = 1 + (-2x - 3y = 5)	3x + 4y = 13 + $5x - 4y = -21$	5. (-1, 8) and (1, -8)	y = -8x
	8x = -8	The equation of a parabola in standard form is $y = ax^2 + bx + c$ . There are three constants a	
-2 <i>y</i> =	<u> </u>	and c. Three points not on a line will determine	a <u>8</u>
y = -3	$x = \underline{-1}$	unique parabola.	\
x = 2	v = 4		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Ordered pair solution: $(2, -3)$	Ordered pair solution: $(-1, 4)$	Find the equation of the parabola passing the	rough $-6 -4 -2 0 2 4 6^{-1}$
		the given points.	······································
		<b>6.</b> (0, 1), (1, 0), and (2, 1)	y = x - 2x + 1
		7. (1, 5), (2, 4), and (4, 8)	$y = x^2 - 4x + 8$
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		Reading Strategies	
3-2 Using Algebraic Methods t	o Solve Linear Systems	<b>3-2</b> Understand Vocabulary	
<b>B22</b> Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18	o Solve Linear Systems zoo so that the feed % protein. Feed Y is 10%	There are two ways you can solve a system of	f equations algebraically.
<b>S22</b> Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18' protein. Use this data for Exercises 1–4.	o Solve Linear Systems zoo so that the feed % protein. Feed Y is 10%	There are two ways you can solve a system of Substitution	f equations algebraically.
<b>B22</b> Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18' protein. Use this data for Exercises 1–4. 1. How much of each feed should Shanae mix	o Solve Linear Systems zoo so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? 0.18x + 0.10y = (0.15)50	There are two ways you can solve a system of Substitution Use substitution when you can easily solve	f equations algebraically.           Elimination           Use elimination to add or subtract
<ul> <li>Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18° protein. Use this data for Exercises 1–4.</li> <li>How much of each feed should Shanae mix         <ul> <li>Write a linear system of equations.</li> </ul> </li> </ul>	to Solve Linear Systems zoo so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? 0.18x + 0.10y = (0.15)50 x + y = 50	There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable.	f equations algebraically.  Elimination Use elimination to add or subtract equations to remove one of the variables.
<ul> <li>Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18 protein. Use this data for Exercises 1–4.</li> <li>How much of each feed should Shanae mix         <ul> <li>Write a linear system of equations.</li> <li>Solve the system. How much of each feed</li> </ul> </li> </ul>	to Solve Linear Systems zoo so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? $\begin{bmatrix} 0.18x + 0.10y = (0.15)50\\ x + y = 50 \end{bmatrix}$ d	There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable. Memory tip: You can substitute salad for fries with your order.	f equations algebraically.  Elimination Use elimination to add or subtract equations to remove one of the variables. Memory tip: The Tigers were <i>eliminated</i> from the basketball tournament.
<ul> <li>Using Algebraic Methods to Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18 protein. Use this data for Exercises 1–4.</li> <li>How much of each feed should Shanae mix</li> <li>Write a linear system of equations.</li> <li>Solve the system. How much of each fees should she mix?</li> </ul>	to Solve Linear Systems zoo so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? $\begin{bmatrix} 0.18x + 0.10y = (0.15)50\\ x + y = 50 \end{bmatrix}$ d	There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable. Memory tip: You can substitute salad for fries with your order. For the system $\begin{cases} x - y = 4 \\ y - y = 4 \end{cases}$	f equations algebraically. Elimination Use elimination to add or subtract equations to remove one of the variables. Memory tip: The Tigers were <i>eliminated</i> from the basketball tournament. For the system $\begin{cases} 5x - 2y = -9 \\ 2y - y = -1 \end{cases}$
Solve the system. How much of each fee should she mix?     Solve the system of equations.     Solve the system. How much of each feed the should shana emix     a. Write a linear system of equations.     Solve the system. How much of each feed should she mix?     31.25 lb of Feed X is	to Solve Linear Systems zoo so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? $ \begin{bmatrix} 0.18x + 0.10y = (0.15)50 \\ x + y = 50 \end{bmatrix} $ and 18.75 lb of Feed Y	There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable. Memory tip: You can substitute salad for fries with your order. For the system $\begin{bmatrix} x - y = 4 \\ 2x - 3y = 7 \\ it is easy to solve x - y = 4 for x: \end{bmatrix}$	f equations algebraically. Elimination Use elimination to add or subtract equations to remove one of the variables. Memory tip: The Tigers were <i>eliminated</i> from the basketball tournament. For the system $\begin{cases} 5x - 2y = -9\\ 3x + 2y = 1 \end{cases}$ if you add the 2 equations together, the <i>y</i> -
Stanae mixes feed for various animals at the has the right amount of protein. Feed X is 18 protein. Use this data for Exercises 1–4.     How much of each feed should Shanae mix     a. Write a linear system of equations.     b. Solve the system. How much of each fee should she mix? <u>31.25 lb of Feed X is</u> Shanae has 15 lb of Feed X left. She wants needs to know how much of Feed X to use.	to Solve Linear Systems to so so that the feed % protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? $ \begin{bmatrix} 0.18x + 0.10y = (0.15)50 \\ x + y = 50 \end{bmatrix} $ and 18.75 lb of Feed Y to make a mixture that is 12% protein. She and how much of the mixture she can make.	There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable. Memory tip: You can substitute salad for fries with your order. For the system $\begin{cases} x - y = 4 \\ 2x - 3y = 7 \end{cases}$ it is easy to solve $x - y = 4$ for $x$ : $x = \boxed{4 + y}$	f equations algebraically. Elimination Use elimination to add or subtract equations to remove one of the variables. Memory tip: The Tigers were eliminated from the basketball tournament. For the system $\begin{cases} 5x - 2y = -9\\ 3x + 2y = 1 \end{cases}$ if you add the 2 equations together, the <i>y</i> - term is eliminated because $-2y + 2y = 0$ .
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State       Using Algebraic Methods t         Shanae mixes feed for various animals at the has the right amount of protein. Feed X is 18 protein. Use this data for Exercises 1–4.         1. How much of each feed should Shanae mix         a. Write a linear system of equations.         b. Solve the system. How much of each fees should she mix?         31.25 lb of Feed X         2. Shanae has 15 lb of Feed Y left. She wants needs to know how much of Feed X to use,         a. Write a linear system of equations.         b. How much of Feed X should she use?         c. How much of Feed X should she use?         c. How much of Feed X with 20 lb of Feed Y. Which equation gives the percent of protein (c) in the mixture?         (A) 12(0.18) + 20(0.10) = s2c         B 32[12(0.18) + 20(0.10)] = c         C 12(0.18) + 20(0.10)] c = 32         5. Billie reorders Feed X and Feed Y. Feed X costs \$S8 per 100 lb. Feed Y costs \$45 per 100 lb. The order comes to \$470 for 900 lb. How much of each did she order?         A Feed X: 350 lb; Feed Y: 550 lb         B Feed X: 400 lb; Feed Y: 500 lb         C Feed X: 400 lb; Feed Y: 500 lb         B Feed X: 400 lb; Feed Y: 500 lb         B Feed X: 400 lb; Feed Y: 500 lb         B Feed X: 400 lb; Feed Y: 500 lb	to Solve Linear Systems processor bat the feed protein. Feed Y is 10% to get 50 lb of feed that is 15% protein? $\begin{bmatrix} 0.18x + 0.10y = (0.15)50 \\ x + y = 50 \\ d \end{bmatrix}$ and 18.75 lb of Feed Y to make a mixture that is 12% protein. She and how much of the mixture she can make. $\begin{bmatrix} 0.18x + (0.10)(15) = (0.12)z \\ x + 15 = z \\ \hline 5 \ 1b \ 0f \ Feed X \\ 20 \ 1b \ 0f \ the \ mixture \\ \hline 20 \ 1b \ 0f \ the \ mixture \\ \hline 4. Alonzo needs to know how much of Feed X and Feed Y to mix to get 25 lbof a mixture that is 12% protein. Which equation can be used as part of a system of equations to find the solution? A (0.10 + 0.18)(x + y) = (0.12)25C 25(0.18 + 0.10) = (0.12)25C 5. Shanae earns $8.00 per hour duringthe daytime and evening hours did shework?A 35 daytime; 2 eveningB 30 daytime; 2 eveningB 30 daytime; 2 evening$	<b>322</b> Understand Vocabulary There are two ways you can solve a system of Substitution Use substitution when you can easily solve one equation for one variable. Memory tip: You can substitute salad for fries with your order. For the system $\begin{vmatrix} x - y = 4 \\ 2x - 3y = 7 \end{vmatrix}$ it is easy to solve $x - y = 4$ for x: x = [4 + y] Then substitute for x in the second equation and solve for y: 2x - 3y = 7 $2(\underline{(4 + y)})^{-3y} = 7$ 8 + 2y - 3y = 7 -y = -1 or $y = 1Finally, solve for x:x = 4 + yx = 4 + 1 = 5The solution to the system is (5, 1).Tell which method you would use to solve earand explain why.1. \begin{vmatrix} 2x + y = 3 \\ 3x + 4y = 9 \end{vmatrix} Solive the first2x - 3y = 7y = -3x + 5y = -92x - 3y = 7y = -3x + 5y = 33x \begin{pmatrix} -2x + 5y = 3 \\ x - 2y = 0 \end{pmatrix} Possible answsolve the second equations togen3x \begin{pmatrix} -2x + 5y = 3 \\ x - 2y = 0 \end{pmatrix}$	f equations algebraically. Elimination Use elimination to add or subtract equations to remove one of the variables. Memory tip: The Tigers were eliminated from the basketball tournament. For the system $\begin{cases} 5x - 2y = -9 \\ 3x + 2y = 1 \end{cases}$ if you add the 2 equations together, the y- term is eliminated because $-2y + 2y = 0$ . Addition gives $8x = -8$ , so $x = -1$ . Finally, solve for y. 3x + 2y = 1 3(-1) + 2y = 1 -3 + 2y = 1 2y = 1 + 3 = 4 y = 2 The solution to the system is $(-1, 2)$ . ach system of equations ver: substitution because I can easily equation for y ver: substitution because I can easily end equation for x
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