Name	_ Date	Class
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## **ESSON Practice B 3-2** Using Algebraic Methods to Solve Linear Systems

Use substitution to solve each system of equations.

**1.**  $\begin{cases} x = 7y - 4 \\ 2x - 3y = 14 \end{cases}$  **2.**  $\begin{cases} y - 3x = 5 \\ 2x = 3y + 6 \end{cases}$  **3.**  $\begin{cases} 3x - 4y = 20 \\ y - 2x = 0 \end{cases}$ 

Use elimination to solve each system of equations.

**4.**  $\begin{cases} x + 6y = 1 \\ 3x + 5y = -10 \end{cases}$  **5.**  $\begin{cases} 3x + 4y = 6 \\ 2x + 3y = 3 \end{cases}$  **6.**  $\begin{cases} 3x - 5y = 1 \\ 2x + 3y = -12 \end{cases}$ 

Use substitution or elimination to solve each 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.  $\begin{cases} 2x + y = 1 \\ x = 5 + y \end{cases}$ 

10.	$\begin{cases} x = -8y \\ x + y = 14 \end{cases}$	<b>11.</b> $\begin{cases} 2x + 4y = 12 \\ -3x + 3y = 63 \end{cases}$	<b>12.</b> $\begin{cases} 5x - 2y = -1 \\ 3x - y = -2 \end{cases}$
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## Solve.

- **13.** Bill leaves his house for Makayla's house riding his bicycle at 8 miles per hour. At the same time, Makayla leaves her house heading toward Bill's house walking at 3 miles per hour.
  - **a.** Write a system of equations to represent the distance, *d*, each is from Makayla's house in *h* hours. They live 8.25 miles apart.
  - **b.** Solve the system to determine how long they travel before meeting.

LESSON Practice A			LESSON Practice B		
Use substitution to solve each sy		near Systems	Use substitution to solve eac	ic Methods to Solve Li	inear Systems
1. $\begin{cases} y = x - 3 \\ x + 2y = 6 \end{cases}$	stem of equations.		1. $\begin{cases} x = 7y - 4 \\ 2x - 3y = 14 \end{cases}$	<b>2.</b> $\begin{cases} y - 3x = 5 \\ 2x = 3y + 6 \end{cases}$	<b>3.</b> $\begin{cases} 3x - 4y = 20 \\ y - 2x = 0 \end{cases}$
<b>a.</b> Substitute $x - 3$ for $y$ in $x + 3$	2y = 6 Then solve the equa	ation for x	2x - 3y = 14	2x = 3y + 6	$\int y - 2x = 0$
	x = 4	alloff for X.	(10, 2)	(-3, -4)	(-4, -8)
<b>b.</b> Substitute your value for x in	y = x - 3 and solve for y.			i	
	<i>y</i> = 1		Use elimination to solve each $(x + 6y = 1)$		(3x - 5y = 1)
c. Write the solution as an orde		(4, 1)	<b>4.</b> $\begin{cases} 3x + 5y = -10 \end{cases}$	$\begin{array}{l} 5. \begin{cases} 3x+4y=6\\ 2x+3y=3 \end{cases} \end{array}$	<b>6.</b> $\begin{cases} 2x + 3y = -12 \end{cases}$
<b>2.</b> $\begin{cases} x = 5 - y \\ 2x + 5y = 16 \end{cases}$ <b>3.</b>	y = 3x + 2 2x + 3y = 17	4. $\begin{cases} x - y = 2 \\ y = 4x + 1 \end{cases}$	(-5, 1)	(6, -3)	(-3, -2)
(3, 2)	(1.5)	(-1, -3)			
				on to solve each system of eq	
Use elimination to solve each sys 5. $\begin{cases} 4x - 5y = 7 \\ 2y - 4y = 2 \end{cases}$	tem 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. $\begin{cases} 2x + y = 1 \\ x = 5 + y \end{cases}$
3x - 4y = 6			(0 5)	( 1 7)	(0 0)
a. Multiply the first equation by	-3 and the second equation $(-12x + 15y = -2)$	-	(0, 0)	$11. \frac{(-1, 7)}{\begin{vmatrix} 2x + 4y = 12 \\ -3x + 3y = 63 \end{vmatrix}}$	(2, -3)
	12x - 16y = 24		<b>10.</b> $\begin{cases} x6y \\ x + y = 14 \end{cases}$	11. $\begin{cases} 2x + 4y - 12 \\ -3x + 3y = 63 \end{cases}$	<b>12.</b> $\begin{cases} 3x - 2y = -1 \\ 3x - y = -2 \end{cases}$
<ul> <li>b. Add the two equations, which</li> </ul>	eliminates x Solve for y		(10 0)	( 10 0)	( 0 7)
			(16, -2)	(-12, 9)	(-3, -7)
	y = -3		Solve.		
c. Substitute your value for y in			per hour. At the same time	akayla's house riding his bicycle , Makayla leaves her house hea	
Write the solution as an orde	$\begin{cases} -x + 3y = 12\\ 6x - y = -21 \end{cases}$	(-2, -3)	Bill's house walking at 3 m	iles per hour. tions to represent the distance,	d anah ia fram
6. $\begin{cases} 5x + y = 19 \\ -2x - y = -7 \end{cases}$ 7.	$\begin{cases} -x + 3y = 12 \\ 6x - y = -21 \end{cases}$	8. $\begin{cases} 2x + 3y = 4 \\ 4x - 2y = -8 \end{cases}$		ours. They live 8.25 miles apart.	d, each is from
				d = 8.25 - 8	h
(4, -1)	(-3, 3)	(-1, 2)		d = 3h	
	( 0, 0)		<li>b. Solve the system to det</li>	ermine how long they travel before	ore meeting.
				0.75 h or 45 min	
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<b>Practice C</b>			<b>Reteach</b>		
<b>Practice C</b> <b>3-2</b> Using Algebraic M	lethods to Solve Lir	near Systems	<b>Beteach</b> <b>3-2</b> Using Algebrai	ic Methods to Solve L	inear Systems
<b>3-2</b> Using Algebraic M Use substitution or elimination to	solve each system of equ	ations.	<b>3-2</b> Using Algebrai	nod to solve a system of linear e	•
<b>3-2</b> Using Algebraic M Use substitution or elimination to	solve each system of equ	ations.	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression	<b>nod</b> to solve a system of linear e e variable. into the other equation.	•
3-2 Using Algebraic M	solve each system of equ	ations.	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the	<b>nod</b> to solve a system of linear e e variable. into the other equation. e. e known variable in the equation	equations:
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2.	solve each system of equation $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$	<b>ations.</b> <b>3.</b> $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl	<b>tod</b> to solve a system of linear e e variable. into the other equation. e. & known variable in the equation e.	in Step 1.
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4)	solve each system of equilibrium $ \begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2}\\ \hline \left(-3, -3\frac{1}{2}\right) \end{cases} $	autions. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ $ \frac{\left(8\frac{1}{4}, -2\right)}{\left(8\frac{1}{4}, -2\right)} $	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the 5. Solve for the other variabl	<b>tod</b> to solve a system of linear e e variable. into the other equation. e. k known variable in the equation e. equations.	equations:
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2.	solve each system of equilibrium $ \begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2}\\ \hline \left(-3, -3\frac{1}{2}\right) \end{cases} $	autions. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ $ \frac{\left(8\frac{1}{4}, -2\right)}{\left(8\frac{1}{4}, -2\right)} $	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both	the dto solve a system of linear e e variable. into the other equation. e. k known variable in the equation e e equations. y = x + 2 $2x + y = 17$	in Step 1.
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ 5.	solve each system of equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\underbrace{\left(-3, -3\frac{1}{2}\right)}_{\left\{x + y = 5\\ 3x + 2y = 4\end{array}$	hations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ $\frac{\left(8\frac{1}{4}, -2\right)}{6. \left(3x + 4y = 35 \\ 4x - 2y = 21 \right)}$	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both of Use the substitution method when the	and to solve a system of linear e e variable. into the other equation. e. b known variable in the equation e. equations. y = x + 2 $2x + y = 17$ $2x + y = 17$	in Step 1.
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ 5.	solve each system of equilibrium $ \begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2}\\ \hline \left(-3, -3\frac{1}{2}\right) \end{cases} $	eations. 3. $ \begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases} $ 6. $ \begin{cases} \frac{\left(8\frac{1}{4}, -2\right)}{\left(4x - 2y = 21\right)} \end{cases} $	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both of Use the substitution	the dto solve a system of linear e e variable. into the other equation. e. b known variable in the equation e. equations. y = x + 2 $2x + y = 17$ $2x + y = 17$ $2x + (x + 2) = 17$ Sub	in Step 1. Use this equation. It is solved for <i>y</i> .
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix}$ 2. (-1.2, 4) 4. $\begin{bmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{bmatrix}$ 5. $(-8\frac{1}{2}, 1)$	solve each system of equilibrium equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\left(-3, -3\frac{1}{2}\right)$ $\left\{ \begin{array}{c} x + y = 5\\ 3x + 2y = 4 \end{array} \right.$ $\left(-6, 11\right)$	hations. <b>3.</b> $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ <b>6.</b> $\begin{cases} \left( 8\frac{1}{4}, -2 \right) \\ 4x - 2y = 21 \end{cases}$ <b>6.</b> $\begin{cases} (3x + 4y = 35) \\ 4x - 2y = 21 \end{cases}$ <b>7.</b> $(7, 3\frac{1}{2})$	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both of Use the substitution method when the coefficient of one of the	the dto solve a system of linear e e variable. into the other equation. e. explored a system of linear e e variable. e known variable in the equation e. equations. $\begin{bmatrix} y = x + 2 \\ 2x + y = 17 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x = 15 \end{bmatrix}$	in Step 1. Use this equation. It is solved for y.
<b>3-2</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ 5. (-8 $\frac{1}{2}$ , 1)	solve each system of equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\underbrace{\left(-3, -3\frac{1}{2}\right)}_{\left\{x + y = 5\\ 3x + 2y = 4\end{array}$	hations. <b>3.</b> $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ <b>6.</b> $\begin{cases} \left( 8\frac{1}{4}, -2 \right) \\ 4x - 2y = 21 \end{cases}$ <b>6.</b> $\begin{cases} (3x + 4y = 35) \\ 4x - 2y = 21 \end{cases}$ <b>7.</b> $(7, 3\frac{1}{2})$	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both of Use the substitution method when the coefficient of one of the variables is 1 or -1.	the dto solve a system of linear e e variable. into the other equation. e. explored a system of linear e e variable. into the other equation. e. equations. y = x + 2 $2x + y = 17$ $2x + y = 17$ $2x + (x + 2) = 17$ $3x + 2 = 17$ $3x = 15$ $x = 5$	in Step 1. Use this equation. It is solved for y.
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} \frac{31}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8.	solve each system of equilibrium equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\left(-3, -3\frac{1}{2}\right)$ $\left\{ \begin{array}{c} x + y = 5\\ 3x + 2y = 4 \end{array} \right.$ $\left(-6, 11\right)$	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. $\left(2x - 8y = 24 \\ x - 21 = 16y\right)$	<b>3-2</b> Using Algebrai To use the substitution meth 1. Solve one equation for on 2. Substitute this expression 3. Solve for the other variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both of Use the substitution method when the coefficient of one of the	the dto solve a system of linear e e variable. into the other equation. e. explored a system of linear e e variable. into the other equation. e. equations. y = x + 2 $2x + y = 17$ $2x + y = 17$ $2x + (x + 2) = 17$ $3x + 2 = 17$ $3x = 15$ $x = 5$	in Step 1. Use this equation. It is solved for y.
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$	solve each system of equilibrium equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\left(-3, -3\frac{1}{2}\right)$ $\left\{ \begin{array}{c} x + y = 5\\ 3x + 2y = 4 \end{array} \right.$ $\left(-6, 11\right)$	hations. <b>3.</b> $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ <b>6.</b> $\begin{cases} \left( 8\frac{1}{4}, -2 \right) \\ 4x - 2y = 21 \end{cases}$ <b>6.</b> $\begin{cases} (3x + 4y = 35) \\ 4x - 2y = 21 \end{cases}$ <b>7.</b> $(7, 3\frac{1}{2})$	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both Wese the substitution method when the coefficient of one of the variables is 1 or $-1$ . Substitute $x = 5$ into $y = x + 4$	nod to solve a system of linear e e variable. into the other equation. e. equations. $\begin{vmatrix} y = x + 2 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x = 15 \\ x = 5 \\ 2 \text{ and solve for } y = x + 2 \\ y = 5 + 2 \\ y = 7 \end{vmatrix}$	in Step 1. Use this equation. It is solved for y.
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$ Solve.	solve each system of equilibrium of equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\begin{pmatrix} -3, -3\frac{1}{2} \end{pmatrix}$ $\begin{cases} x + y = 5\\ 3x + 2y = 4 \end{cases}$ $\begin{pmatrix} -6, 11 \end{pmatrix}$ $\begin{cases} 5x - 5y = 6\\ 4x + 7y = -4 \end{pmatrix}$ $\begin{pmatrix} \frac{2}{5}, -\frac{4}{5} \end{pmatrix}$	nations. 3. $\begin{cases} x + 4y = \frac{1}{4} \\ 4x - 3y = 39 \end{cases}$ 6. $\begin{cases} \frac{81}{4}, -2 \\ 4x - 2y = 21 \end{cases}$ 9. $\begin{cases} 2x - 8y = 24 \\ x - 21 = 16y \end{cases}$ (9, $-\frac{3}{4}$ )	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both We the substitution 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 the	the ordered pair (5, 7).	in Step 1. Use this equation. It is solved for <i>y</i> .
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$	solve each system of equilibrium of equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $(-3, -3\frac{1}{2})$ $\begin{vmatrix} x + y = 5\\ 3x + 2y = 4 \end{vmatrix}$ (-6, 11) $\begin{vmatrix} 5x - 5y = 6\\ 4x + 7y = -4 \end{vmatrix}$ $(\frac{2}{5}, -\frac{4}{5})$ and 2 pounds of raisins for \$2	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. $\left(\frac{2x - 8y = 24}{x - 21 = 16y}$ $\frac{\left(9, -\frac{3}{4}\right)}{\left(2x - \frac{3}{4}\right)}$ 23.50. Mark	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both Wese the substitution method when the coefficient of one of the variables is 1 or $-1$ . Substitute $x = 5$ into $y = x + 4$	nod to solve a system of linear e e variable. into the other equation. e. equations. $\begin{vmatrix} y = x + 2 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x = 15 \\ x = 5 \\ 2 \text{ and solve for } y = x + 2 \\ y = 5 + 2 \\ y = 7 \end{vmatrix}$	equations: in Step 1. Use this equation. It is solved for y. positive x + 2 for y. upplify and solve for x. + 2; $7 = 74$
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$ Solve. 10. Cora bought 4 pounds of nuts and 4 f a. Write a system of equations	solve each system of equilibrium of equilibrium $\begin{cases} 3x - 4y = 5\\ x = y + \frac{1}{2} \end{cases}$ $\begin{pmatrix} -3, -3\frac{1}{2} \end{pmatrix}$ $\begin{cases} x + y = 5\\ 3x + 2y = 4 \end{cases}$ $\begin{pmatrix} -6, 11 \end{pmatrix}$ $\begin{cases} 5x - 5y = 6\\ 4x + 7y = -4 \end{cases}$ $\begin{pmatrix} \frac{2}{5}, -\frac{4}{5} \end{pmatrix}$ and 2 pounds of raisins for \$18.5000000000000000000000000000000000000	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. $\frac{\left(7, 3\frac{1}{2}\right)}{\left(x - 21 = 16y\right)}$ 23.50. Mark	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both Wese 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 in Check using both equations:	nod to solve a system of linear e e variable. into the other equation. e. equations. $\begin{vmatrix} y = x + 2 \\ 2x + y = 17 \\ 2x + y = 17 \\ 2x + (x + 2) = 17 \\ 3x + 2 = 17 \\ 3x + 2 = 17 \\ 3x = 15 \\ x = 5 \\ 2 \text{ and solve for } y = x + 2 \\ y = 5 + 2 \\ y = 7 \\ 1 \text{ the ordered pair } (5, 7). \\ y = x + 2;  7 \stackrel{?}{=} (5) - 2 \\ 2x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ y = x + 2 \\ y = 17;  2(5) + 7 \\ 2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 2 x + y = 17;  2(5) + 7 \\ 1 \text{ for a system of linear equation } (5, 7) \\ 3 x + 2 x + 2 \\ 3 x + 2 x + 2 \\ 4 x + 2 \\$	equations: in Step 1. Use this equation. It is solved for y. positive x + 2 for y. upplify and solve for x. + 2; $7 = 74$
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<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{bmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{bmatrix}$ 2. $\frac{(-1.2, 4)}{4}$ 4. $\begin{bmatrix} (-1.2, 4) \\ 2x = -7y - 10 \end{bmatrix}$ 5. $\frac{(-8\frac{1}{2}, 1)}{(5x = 4y)}$ 8. $\frac{(6, 7\frac{1}{2})}{(5x = 4y)}$ 8. <b>30</b> Solve. 10. Cora bought 4 pounds of nuts a bought 2 pounds of nuts and 4 if a. Write a system of equations price of the nuts, <i>n</i> , and the punction nuts and a pound of raising of the nuts, <i>n</i> , and the punction nuts and a pound of raising of the nuts and a pound of raising	solve each system of equ $\begin{cases} 3x - 4y = 5 \\ x = y + \frac{1}{2} \end{cases}$ $\frac{(-3, -3\frac{1}{2})}{\begin{vmatrix} x + y = 5 \\ 3x + 2y = 4 \end{vmatrix}}$ $\frac{(-6, 11)}{\begin{vmatrix} 5x - 5y = 6 \\ 4x + 7y = -4 \end{vmatrix}}$ $\frac{(\frac{2}{5}, -\frac{4}{5})}{\begin{vmatrix} 2x - 4x \\ 2x - 5y = 6 \\ 4x + 7y = -4 \end{vmatrix}}$ Ind 2 pounds of raisins for \$18.50; that represents the porice of the raisins, <i>r</i>	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. $\frac{\left(7, 3\frac{1}{2}\right)}{\left(x - 21 = 16y\right)}$ 23.50. Mark $\frac{\left(9, -\frac{3}{4}\right)}{\left(2n + 2r = 23.5 \\ 2n + 4r = 18.5\right)}$ \$7.00 triangle to the second seco	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both 1. We 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 is Check using both equations: <b>Use substitution to solve eac</b> 1. $\begin{bmatrix} y = 2x - 5 \\ 3x + y = 10 \end{bmatrix}$ Use $y = 2x - 5$ .	The ordered pair (5, 7). y = x + 2; y = 5 + 2; y = 7; (5) + 7;	equations: in Step 1. Use this equation. It is solved for y. build the solve for y. x = 2;  7 = 74 $2 = 17;  17 = 174$ $y = 1$ $2 = 2.$
<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$ Solve. 10. Cora bought 4 pounds of nuts and bought 2 pounds of nuts and 4 ft a. Write a system of equations price of the nuts, <i>n</i> , and the <i>g</i> b. Solve the system. How much nuts and a pound of raising of the nuts, <i>n</i> , and Riley reads $\frac{3}{4}$ p read 70 pages, while Riley has 2	solve each system of equivalent equivalent for the system of equivalent equi	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. $\frac{\left(7, 3\frac{1}{2}\right)}{\left(x - 21 = 16y\right)}$ 23.50. Mark $\frac{\left(9, -\frac{3}{4}\right)}{\left(2n + 2r = 23.5 \\ 2n + 4r = 18.5 \right)}$ \$7.00 age ready	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both wethod 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 eac</b> 1. $\begin{cases} y = 2x - 5 \\ 3x + y = 10 \end{cases}$ Use $y = 2x - 5$ . $3x + \frac{2x - 5}{2x - 5} = 10$	the ord to solve a system of linear e e variable. into the other equation. e. e known variable in the equation e.  2x + y = 17 2x + y = 17 2x + y = 17 2x + (x + 2) = 17 Sutt 3x + 2 = 17 Sutt 3x + 2 = 17 Sutt 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; $2(5) + 7the system of equations.2. \begin{cases} 3x + 2 \\ x - y = \end{cases}Solve forx = \_$	equations: in Step 1. Use this equation. It is solved for y. build $x + 2$ for y. constructer $x + 2$ for y. in Stitute $x$
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<b>32</b> Using Algebraic M Use substitution or elimination to 1. $\begin{vmatrix} x = y - 5.2 \\ 2x + 3y = 9.6 \end{vmatrix}$ 2. (-1.2, 4) 4. $\begin{vmatrix} 2x + 20y = 3 \\ 2x = -7y - 10 \end{vmatrix}$ 5. $(-8\frac{1}{2}, 1)$ 7. $\begin{vmatrix} 3\frac{1}{4}x + 3y = 42 \\ 5x = 4y \end{vmatrix}$ 8. $(6, 7\frac{1}{2})$ Solve. 10. Cora bought 4 pounds of nuts and bought 2 pounds of nuts and 4 ft a. Write a system of equations price of the nuts, <i>n</i> , and the <i>g</i> b. Solve the system. How much nuts and a pound of raising of the nuts, <i>n</i> , and Riley reads $\frac{3}{4}$ p read 70 pages, while Riley has 2	solve each system of equivalence of a system of a sys	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. $\frac{\left(7, 3\frac{1}{2}\right)}{\left(x - 21 = 16y\right)}$ 23.50. Mark $\frac{\left(9, -\frac{3}{4}\right)}{\left(2n + 2r = 23.5 \\ 2n + 4r = 18.5 \right)}$ \$7.00 age ready	<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 variabl 4. Substitute the value of the 5. Solve for the other variabl 6. Check the values in both 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 i Check using both equations: <b>Use substitution to solve eac</b> 1. $\begin{bmatrix} y = 2x - 5 \\ 3x + y = 10 \end{bmatrix}$ Use $y = 2x - 5$ . $3x + \frac{2x - 5}{5} = 10$ 5x - 5 = 10 x = 3	the ordered pair (5, 7). $y = x + 2; 7 \stackrel{?}{=} (5) + 7; 2(5) + 7$	equations: in Step 1. Use this equation. It is solved for y. bitiute $x + 2$ for y. iplify and solve for x. $+ 2;  7 = 74$ $\stackrel{?}{=} 17;  17 = 174$ $y = 1$ $y = 2$ $y + 2$ $y = -1$
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