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LESSON Reteach

Using Graphs and Tables to Solve Linear Systems

A linear system of equations is a set of two or more linear equations. To solve a linear **system**, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equations.

 $\begin{cases} y + x = 2\\ y - 2x = 5 \end{cases}$ Solve each equation for $y \rightarrow \begin{cases} y = -x + 2\\ y = 2x + 5 \end{cases}$

Make a table of values for each equation.



On a graph, the point where the lines intersect is the solution.

Use the table to draw the graph of each equation.

The lines appear to intersect at (-1, 3).

Substitute (-1, 3) into the original equations to check.

y + x = 2 3 + (-1) $\stackrel{?}{=} 2$ 2 = 2√ y - 2x = 5 3 - 2(-1) $\stackrel{?}{=} 5$ 5 = 5 2 = 2√ 5 = 5

that solves both equations. (x + y = 1)1. Solution: 2x - y = 5

Solve the system using a table and a graph. Give the ordered pair







LESSON Reteach			
3-1 Using Graphs and Tables to Solve Linear Systems			
(continued)			
To classify a linear system: Step 1 Write each equation in the form $y = mx + b$. Step 2 Compare the slopes and <i>y</i> -intercepts. Step 3 Classify by the number of solutions of the system. Remember: $m =$ slope and $b =$ <i>y</i> -intercept.			
Exactly One Solution Independent	Infinitely Many Solutions Dependent	No Solution Inconsistent	
The lines have different slopes and intersect at one point.	The lines have the same slope and <i>y</i>-intercept. Their graph is the same line.	The lines have the same slope and different <i>y</i> -intercepts. The lines are parallel.	
$\begin{cases} x + y = 3\\ x - y = 1 \end{cases}$	$\begin{cases} 2x = y - 1\\ 4y - 8x = 4 \end{cases}$	$\begin{cases} y+2x=-3\\ y-1=-2x \end{cases}$	
Solve each equation for <i>y</i> .	Solve each equation for y.	Solve each equation for y.	
$\begin{cases} y = -x + 3; m = -1 \\ y = x - 1; m = 1 \end{cases}$	$\begin{cases} y = 2x + 1; \ m = 2, \ b = 1 \\ y = 2x + 1; \ m = 2, \ b = 1 \end{cases}$	$\begin{cases} y = -2x - 3; \ m = -2, \ b = -3 \\ y = -2x + 1; \ m = -2, \ b = 1 \end{cases}$	
The slopes are different.	The slopes and the y-intercepts are the same.	The slopes are the same but the <i>y</i> -intercepts are different.	
one solution and is independent.	The system has infinitely many solutions and is dependent.	The system has no solution and is inconsistent.	
x + y = 3 $x + y = 3$ y $x + y = 3$ y y z z z $x - y = 1$ z $x - y = 1$ z	$ \begin{array}{c} $	y + 2x = -3 $y + 2x = -3$	



LESSON Practice A EDI Using Graphs and Tables to Solve Linear Systems Does the given ordered pair solve the system of equations? Substitute each value for x and y into the equations. Write yes or no.	LESSON Practice B ESET Using Graphs and Tables to Solve Linear Systems Classify each system, and determine the number of solutions. 1 $y = -4x + 7$ 2 $ 5y = x - 10$ 3 $ x + 6y = -2 $
1. $(2, -1) \begin{vmatrix} 3x + y = 3 \\ x - y = 5 \end{vmatrix}$ 2. $(4, 5) \begin{vmatrix} x - 6y = -26 \\ 2x + y = 13 \end{vmatrix}$ 3. $(-3, -7) \begin{vmatrix} -x + 2y = 1 \\ 4x - 3y = 19 \end{vmatrix}$	$12x + 3y = 21 \qquad \qquad y = \frac{x}{5} + 3 \qquad \qquad (12x - 6y = 0)$
$3(2) + (-1) \stackrel{?}{=} 3$ (2) - (-1) \stackrel{?}{=} 5	dependent; infinitely Inconsistent; no Consistent, indepen-
$(2) - (-1) \ge 0$	many solutions solutions dent; one solution
<u> </u>	Use substitution to determine if the given ordered pair is an element of the solution set for the system of equations. If it is not, give the
Use a table and a graph to solve the system. 4. $\begin{bmatrix} y = x + 1 \\ 0 = y = 2 \end{bmatrix}$	correct solution. It is the $(y = -2x)$ contained $(y = x - 8)$ (6. 2)
x = 2y + 2 a. Make a table of values for each equation.	4. $(-4, 8)\begin{vmatrix} y - 2x \\ 3x + y = -4 \end{vmatrix}$ Solution. 5. $(11, 3)\begin{vmatrix} y - x \\ x + 4y = -2 \end{vmatrix}$ $(0, -2)$
$y = x + 1 \qquad x = 2y + 2$	6. (4, 1) $\begin{vmatrix} y = 5x - 1 \\ 8 = 4x + y \end{vmatrix}$ 7. (5, -5) $\begin{vmatrix} x + y = 10 \\ x - y = 0 \end{vmatrix}$ 11 is the
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	8. $(2, -1) \begin{vmatrix} 2x + 3y = -8 \\ 3x - 4y = 5 \end{vmatrix} (-1, -2)$ 9. $(0, 3) \begin{vmatrix} 3x + 5y = 15 \\ x - y = -3 \end{vmatrix}$ solution.
$-1 0 -1 -\frac{3}{2} -5 -4 -3 -2 0 2 3 4 5 -4 -5 -4 -3 -2 0 2 3 4 5 -3 -3 -3 -3 -3 -3 -3 $	Solve by graphing a system of equations.
	10. A puppy pen is 1 foot longer than twice its width.
$\begin{array}{c c} \hline & \hline & \hline \\ 2 & 3 \\ \hline \end{array} \begin{array}{c} 2 & 0^2 \\ \hline \end{array} \begin{array}{c} 2 & 0^2 \\ \hline \end{array} \begin{array}{c} 4 \\ -5 \\ \hline \end{array}$	5 feet each to enlarge the area by 90 square feet. What
b. Use the values in the tables to graph each equation.	
c. Which ordered pair solves both equations? (-4, -3)	<u>126 square teet</u>
Use a graph to solve each system. (x + y = 2) (2 -1) $(y = 3x - 2)$ (2 4)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5. $\begin{pmatrix} x - y = 4 \\ x - y = 4 \end{pmatrix}$ 6. $\begin{pmatrix} y - 6x \\ x + y = 6 \end{pmatrix}$	11. Keesha has 10 more quarters than dimes, which,
	have in quarters and dimes?
	35 quarters + 25 dimes =
	10 S
	$0 \begin{array}{ c c c c c c c c c c c c c c c c c c c$
Copyright Do Holds, teached and Weston. 3 Holt Algebra 2	Copyright O by Holt, Rivehant and Winston. 4 Holt Algebra 2 All rights reserved.
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Practice C Using Graphs and Tables to Solve Linear Systems	Reteach Bin Using Graphs and Tables to Solve Linear Systems
Itesson Practice C Bill Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. (12)	LESSON Reteach Sing Graphs and Tables to Solve Linear Systems A linear system of equations is a set of two or more linear equations. To solve a linear system find all the ordered pairs (x, y) that make both equations true Lise a table and a
LESSON Practice C 311 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. $ \begin{bmatrix} y = \frac{2}{3}x + 10 \\ y = 3x + 1 \end{bmatrix} $	Reteach Solution A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x , y) that make both equations true. Use a table and a graph to solve a system of equations. (y + x = 2)
Lisson Practice C 311 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. y = $\frac{2}{3}x + 10$ y = $3x + 1$ 2. The system is inconsistent	Reteach Solution A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (<i>x</i> , <i>y</i>) that make both equations true. Use a table and a graph to solve a system of equations. $\begin{cases} y + x = 2 \\ y - 2x = 5 \end{cases}$ Solve each equation for $y \rightarrow \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ Make a table of values for each equation
Lisson Practice C B11 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent.	Reteach Solution A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equations. $\begin{cases} y + x = 2 \\ y - 2x = 5 \end{cases}$ Solve each equation for $y \rightarrow \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ Make a table of values for each equation. $\begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ When $x = -1$, $y = 3$ for both equations of the equations. $\begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$
Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. y = $\frac{2}{3}x + 10$ y = $\frac{2}{3}x + 10$ y = $\frac{2}{3}x + 10$ (y - $\frac{2}{3}x + 10$ (y - $4x = 60$ 3. The system is consistent and independent.	Reteach Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solut
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Practice C Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ y = 3x + 1 \end{vmatrix}$ 2. The system is inconsistent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 6y - 4x = 60 \end{vmatrix}$ 3. The system is consistent and independent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 6y - 4x = 60 \end{vmatrix}$ 3. The system is consistent and independent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 3y + 9 = 2x \end{vmatrix}$ Solve. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallon per bour 0 4 5 collops of water is draining at a rate of 1 gallo	Reteach Solution Set 1 Using Graphs and Tables to Solve Linear Systems A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equations. $\begin{cases} y + x = 2 \\ y - 2x = 5 \end{cases}$ Solve each equation for $y \rightarrow \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ Make a table of values for each equation. $\begin{cases} y = -x + 2 \\ x = 2 \\ -2 \\ 4 \\ -1 \\ 3 \\ 0 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 7 \\ \end{bmatrix}$ When $x = -1$, $y = 3$ for both equations. $\begin{cases} y = -x + 2 \\ y = -2 \\ -2 \\ 1 \\ -1 \\ 3 \\ 0 \\ 5 \\ 1 \\ 7 \\ \end{cases}$
Practice CBin Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditionsthat it satisfies.1. The system is consistent and dependent.2. The system is inconsistent.3. The system is consistent and independent.3. The system is consistent and independent.9. The system is consistent and independen	Reteach Using Graphs and Tables to Solve Linear Systems A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equations. $\begin{vmatrix} y + x = 2 \\ y - 2x = 5 \end{vmatrix}$ Solve each equation for $y \rightarrow \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ Make a table of values for each equation. $\begin{vmatrix} y = -x + 2 \\ y = -2 + 4 \\ -1 - 1 - 3 \\ 0 - 2 \\ 1 - 1 - 1 \\ 0 - 5 \\ 1 - 7 \end{vmatrix}$ When $x = -1$, $y = 3$ for both equations. $\begin{vmatrix} y = -x + 2 \\ y = -2 + 5 \\ -2 - 4 \\ -1 - 1 - 3 \\ 0 - 5 \\ 1 - 7 \\ 0 \\ 0 - 5 \\ 1 - 7 \\ 0 \\ 0 - 5 \\ 1 - 7 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
Eason Practice C B1 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon every 6 hours. a. Write a system of equations that represents y, the number of gallons left in the container after x hours.	Reteach Using Graphs and Tables to Solve Linear Systems A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equation for $y \rightarrow \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$ Make a table of values for each equation. $\boxed{\frac{y = -x + 2}{\frac{-2}{1} + \frac{1}{1}}}$ $\boxed{\frac{y = -x + 2}{\frac{1}{1} + \frac{1}{1} + \frac{3}{1}}}$ $\boxed{\frac{y = 2x + 5}{1}}$ Multiply the point where the lines intersect is the solution. Use the table to draw the graph of each equation. The lines appear to intersect at (-1, 3).
Practice C 31 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. A basin of a gallons of water is draining at a rate of 1 gallon per hour. 4. Write a system of equations that represents y, the number of gallons left in the container after x hours. 5. The system of equations that represents y difference of the period	Reteach Solution Set 1 Set 1 Solution Reteach Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution
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Practice C S1 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon every 6 hours. a. Write a system of equations that represents y, the number of gallons left in the container after x hours. $\begin{bmatrix} y = \frac{2}{3}x + 10 \\ y = \frac{2}{3}x + 10 \\ gy - 4x = 60 \\ gy + 9 = 2x \end{bmatrix}$ Solve. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon every 6 hours. a. Write a system of equations that represents y, the number of gallons left in the container after x hours. $\begin{bmatrix} y = -x + 16 \\ y = -\frac{1}{6}x + 3.5 \end{bmatrix}$ b. If both containers began draining at the same time, how soon will the tub and basin beld the norme around of water of the source of th	Reteach Using Graphs and Tables to Solve Linear Systems. A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equation for $y ightharpoondown (x, y) = x + 2 \ y - 2x = 5$. Make a table of values for each equation $fy ightharpoondown (y - x) = \begin{cases} y = -x + 2 \\ y = 2x + 5 \end{cases}$. Make a table of values for each equation. $\frac{y = -x + 2}{\frac{1}{2 - 4}}$ $\frac{y}{\frac{1}{2 - 4}}$ $\frac{y}{\frac{1}{2 - 4}}$ $\frac{y}{\frac{1}{2 - 1}}$ $\frac{y}{\frac{1}{2 - 1}}$ $\frac{y}{\frac{1}{2 - 1}}$ $\frac{y}{\frac{1}{2 - 1}}$ $\frac{y}{\frac{1}{2 - 2}}$ Solve the system using a table and a graph. Give the ordered pair
Practice C 31 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of equations that represents y, the number of gallons left in the container after x hours. 4. Write a system of equations that represents y, the number of gallons left in the container after x hours. 5. If both containers began draining at the same time, how soon will the tub and basin hold the same amount of water?	Reteach Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solut
Practice C 31 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon set in the container after x hours. 4. Write a system of equations that represents y, the number of gallons left in the container after x hours. 5. If both containers began draining at the same time, how soon will the tub and basin hold the same amount of water? 15 h	Reteach Using Graphs and Tables to Solve Linear Systems. A linear system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equation for $y \rightarrow \begin{pmatrix} y = -x + 2 \\ y = 2x = 5 \end{pmatrix}$ Make a table of values for each equation. $\frac{y = -x + 2}{\frac{y - 2x}{4}}$ $\frac{y = -x + 2}{\frac{y - 2x}{4}}$ y
Practice C S1 Using Graphs and Tables to Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. 2. The system is inconsistent. 3. The system is consistent and independent. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon every 6 hours. 3. Write a system of equations that represents y, the number of gallons left in the container after x hours. $\begin{cases} y = -x + 16 \\ y = -\frac{1}{6}x + 3.5 \end{cases}$ b. If both containers began draining at the same time, how soon will the tub and basin hold the same amount of water? 15 h c. When the amounts are equal, how much water will be in each container?	Reteach Solution: Reteach Solution: Reteach Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution: Solution:
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Practice C Solve Linear Systems Match each system of equations with the corresponding conditions that it satisfies. 1. The system is consistent and dependent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ y = 3x + 1 \end{vmatrix}$ 2. The system is inconsistent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 6y - 4x = 60 \end{vmatrix}$ 3. The system is consistent and independent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 6y - 4x = 60 \end{vmatrix}$ 3. The system is consistent and independent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 6y - 4x = 60 \end{vmatrix}$ 3. The system is consistent and independent. $\begin{vmatrix} y = \frac{2}{3}x + 10 \\ 8y + 9 = 2x \end{vmatrix}$ Solve. 4. A tub containing 16 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon per hour. A basin of 3.5 gallons of water is draining at a rate of 1 gallon set in the container after x hours. a. Write a system of equations that represents y, the number of gallons left in the container after x hours. $\begin{cases} y = -x + 16 \\ y = -\frac{1}{6}x + 3.5 \end{cases}$ b. If both containers began draining at the same time, how soon will the tub and basin hold the same amount of water? I gallon 5. Jenna has \$1500 in a savings account. She adds \$30 to her account each month. a. In how many months will they have the same balance in their savings accounts? 15 months b. What will be the balance in each account?	Reteach Index system of equations is a set of two or more linear equations. To solve a linear system, find all the ordered pairs (x, y) that make both equations true. Use a table and a graph to solve a system of equation for $y \rightarrow \begin{pmatrix} y = -x + 2 \\ y = 2x = 5 \end{pmatrix}$ Solve each equation for $y \rightarrow \begin{pmatrix} y = -x + 2 \\ y = 2x + 5 \end{pmatrix}$. Make a table of values for each equation $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{1 - 1 - 3}}$ $\boxed{\frac{y = -x + 2}{2 - 2}}$ $\boxed{\frac{y = -x + 1}{2 - 2 - 2}}$ $\boxed{\frac{y = 2x - 5}{2 - 2 - 2}}$ $\boxed{\frac{y = -x + 1}{3 - 2}}$ $\boxed{\frac{y = -x + 2}{3 - 2}}$ $\frac{y = $
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