Practice Set 4.1

Use the choices below to fill in each blank.

	one two	consistent inconsistent	dependent parallel	the same intersecting	slopes y-intercepts		
1.	A system of equations that has an infinite number of solutions is called a(n)						
2.	A system of equations and the	ations that has no so e graph of the two e	lution is called a(n) quations represents		system of line(s).		
3.	A system of equations and the	ation that has one so e graph of the two e	lution is called a(n) quations represents		system ofline(s).		
4.	To determine, without graphing, whether a system of equations is consistent, inconsistent, or dependent, compare the and						
5.	When solving a system of equations by addition, multiply one or both equations by (a) constant(s) so that when the equations are added the sum will contain variable.						
Determine which of the ordered pairs, if any, satisfy the system of linear equations.							
6.	y = 2x + 1 $y = 3x$	a) b)	(1, 3) (-1, -3)	6			
7.	3x + 2y = 0 2x + y = 1 Cop	oyright © 2011 Pear a) b)	(2, 3) (2, -3)	blishing as Prentice	Hall.		
8.	$3x - 12y = 30$ $y = \frac{x}{4} - \frac{5}{2}$	a) b)	(10, 0) (-14, -6)	8			
Without graphing the equations, state whether the system of equations is consistent, inconsistent, or dependent. Also, indicate whether the system has exactly one solution, no solution, or an infinite number of solutions.							
9.	-5x + 7y = 9	10.	5x + 3y = 15	9.			

9.	$y = -\frac{4}{3}x + \frac{10}{3}$	10. $3x + 3y - 15$ $\frac{x}{3} + \frac{y}{5} = 1$	9 10
11.	4x + 6y = -12	12. $4x - 4y = 1$	11
	$y = -\frac{2}{3}x - \frac{5}{2}$	$\frac{x}{2} - \frac{y}{2} = 1$	12

Practice Set 4.1

Determine the solution to each system of equations graphically.



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