## Practice Set 3.1

Use the choices below to fill in each blank.

	<i>x</i> -axis <i>y</i> -axis	infinite finite	nonlinear linear	three five
1.	A linear equation has a( n) number of solutions.			
2.	The horizontal axis of the	<u>     .</u>		
3.	The vertical axis of the co	÷		
4.	An equation whose graph	_equation.		
5.	An equation whose graph is not a straight line is called a(n)			equation.

List the coordinates of each point and write the quadrant in which the point is located.

6. A7. B8. C9. D6. A6. A6. A6. B7. B6. A6. B7. B6. A6. A7. B6. A7. B6. A7. B6. A7. B6. A7. B6. A7. B7. B

6	 	 
7	 	 
8	 	 
9.		

2 1

> -1 -2 -3 -4 -5 -6

123456

Determine whether the given ordered pair is a solution to the given equation.

**10.** y = 2x + 3; (2, 7) **11.**  $y = \sqrt{x}$ ; (-4, 2) **10. 11. 11.** 

Graph each equation.

**12.** 
$$y = 2x + 1$$
 **13.**  $y = -\frac{1}{2}x - 3$ 

Practice Set 3.1

Graph each equation.

**14.** 
$$y = x^2 - 3$$

**15.** 
$$y = |x| - 1$$













x

-4

-3

-2

-3/2

-1/2

0

1

2

3

4

v



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17.	$y = \sqrt{x+1}$

V

x

-1

0

3



Match the description with the corresponding graph.

- 18. Train A traveled at a speed of **19.** Train B traveled at a speed 15 mph for 1 hour, then 35 mph for 2 hours, and then 15 mph for 1 hour.
- of 60 mph for 1 hour, then 40 mph for 1 hour, then 30 mph for 1 hour, and then 50 mph for 1 hour.







