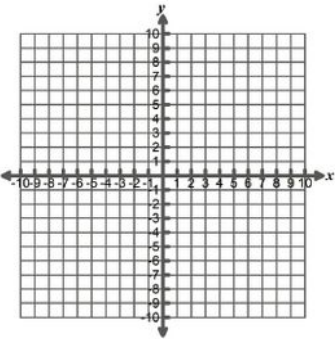
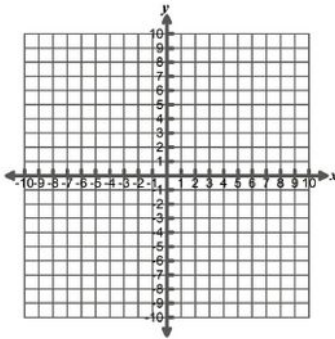


Day 2 Practice: Parallel and Perpendicular Lines

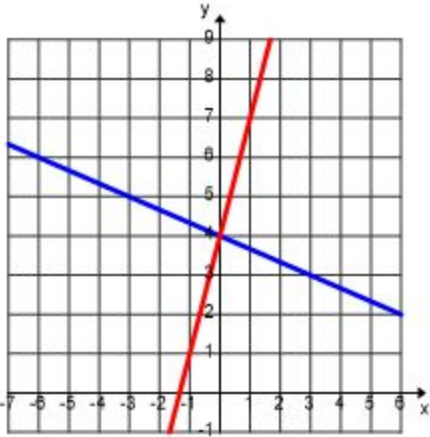
Write the equation of each line described. **Your final answer should be in slope-intercept form.**

<p>1.</p>	<p>The line goes through the point (3,2) and is parallel to the line $y = 3x - 1$</p> <p>Equation: _____</p>	<p>2.</p>	<p>The line goes through the point (3,2) and is perpendicular to the line $y = 3x - 1$</p> <p>Equation: _____</p>
<p>3.</p>	<p>The line goes through the point (1, -2) and is parallel to the line y-axis</p>  <p>Equation: _____</p>	<p>4.</p>	<p>The line goes through the point (1, -2) and is perpendicular to the y-axis.</p>  <p>Equation: _____</p>
<p>5.</p>	<p>The line goes through the point (-3, -3) and is parallel to the line $y = \frac{4}{3}x - 1$</p> <p>Equation: _____</p>	<p>6.</p>	<p>The line goes through the point (-3, -3) and is perpendicular to the line $y = \frac{4}{3}x - 1$</p> <p>Equation: _____</p>
<p>7.</p>	<p>Which equation shows a line that is parallel to $y = -2x - 4$?</p> <p>A. $y = \frac{1}{2}x + 5$ B. $y = -2x + 5$ C. $y = 5x + 1$</p>	<p>8.</p>	<p>Which equation shows a line that is perpendicular to $y = -2x - 4$?</p> <p>A. $y = \frac{1}{2}x + 5$ B. $y = -2x + 5$ C. $y = 5x + 1$</p>

	D. $y = 2x + 5$		D. $y = 2x + 5$
9.	Which equation shows a line that is parallel to $y = -\frac{1}{3}x - 2$? A. $y = \frac{1}{3}x - \frac{4}{3}$ B. $y = -\frac{4}{3}x - \frac{1}{3}$ C. $y = -\frac{1}{3}x - \frac{4}{3}$ D. $y = 3x - \frac{1}{3}$	10.	Which equation shows a line that is perpendicular to $y = -\frac{1}{3}x - 2$? A. $y = \frac{1}{3}x - \frac{4}{3}$ B. $y = -\frac{4}{3}x - \frac{1}{3}$ C. $y = -\frac{1}{3}x - \frac{4}{3}$ D. $y = 3x - \frac{1}{3}$
11.	Which equation shows a line that is parallel to $y = \frac{4}{7}x - 1$, and goes through the point $(-4, 5)$ A. $y + 4 = \frac{4}{7}(x - 4)$ B. $y - 5 = -\frac{7}{4}(x + 4)$ C. $y - 5 = \frac{4}{7}(x + 4)$ D. $y + 4 = -\frac{7}{4}(x - 5)$	12.	Which equation shows a line that is perpendicular to $y = \frac{4}{7}x - 1$, and goes through the point $(-4, 5)$ A. $y + 4 = \frac{4}{7}(x - 4)$ B. $y - 5 = -\frac{7}{4}(x + 4)$ C. $y - 5 = \frac{4}{7}(x + 4)$ D. $y + 4 = -\frac{7}{4}(x - 5)$
13.	Which equation shows a line that is parallel to $y = 5x + 12$, and goes through the point $(6, -2)$ A. $y + 2 = 5(x - 6)$ B. $y - 2 = -5(x - 6)$ C. $y - 6 = 5(x - 6)$ D. $y + 2 = -\frac{1}{5}(x - 6)$	14.	Which equation shows a line that is perpendicular to $y = 5x + 12$, and goes through the point $(6, -2)$ A. $y + 2 = 5(x - 6)$ B. $y - 2 = -5(x - 6)$ C. $y - 6 = 5(x - 6)$ D. $y + 2 = -\frac{1}{5}(x - 6)$

Classify the following equation as parallel, perpendicular, or neither.

15.	$y = 4x + 14$	$y = -4x + 14$	16.	$y = \frac{3}{2}x - 1$	$y = -\frac{2}{3}x + 5$	
	Parallel	Perpendicular	Neither	Parallel	Perpendicular	Neither
17.	$3x - 4y = -11$	$4x + 3y = -15$	18.	$7x + 4y = 16$	$7x + y = -30$	

	Parallel	Perpendicular	Neither		Parallel	Perpendicular	Neither
19.				20.	