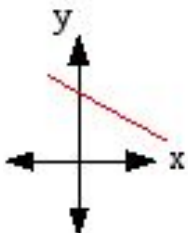
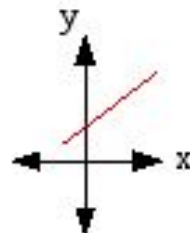
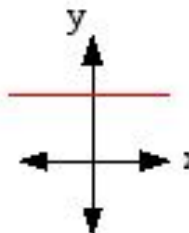
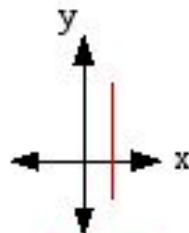


SOL Review: Slope Identification

What is slope?

Definition Describes the steepness and direction of a line	
Finding slope given two points on the line: (x_1, y_1) and (x_2, y_2)	
Method 1: $m = \frac{y_2 - y_1}{x_2 - x_1}$	Method 2: $m = \frac{\Delta y}{\Delta x}$ where Δ means “change in”-subtraction.
Finding the slope of a line given an equation: Solve the equation for y (slope-intercept form). The coefficient of x is the slope of the line.	
Slope can be one of four different things:	
 negative	 positive
 zero ($m = 0$)	 no slope (m undefined)

HOY-VUX

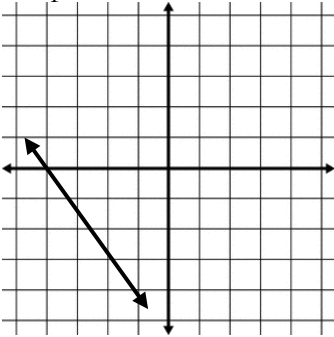
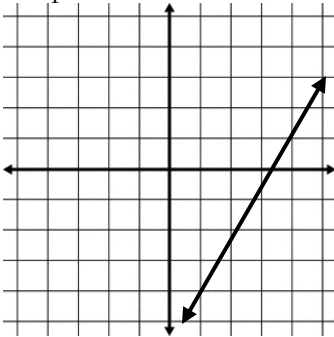
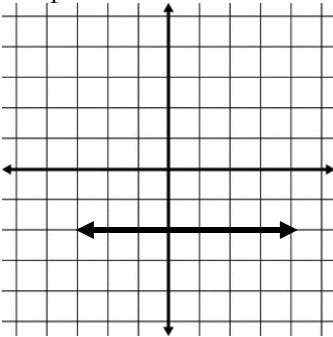
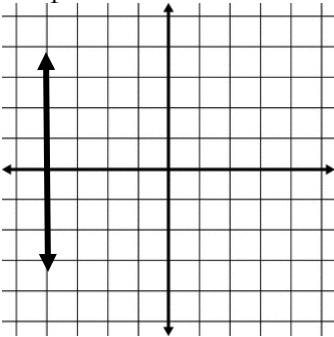
Horizontal Lines (HOY) 0 slope $y = \#$	Vertical Lines (VUX) Undefined slope $x = \#$
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Parallel and Perpendicular Lines

Parallel Lines have the same slope	Perpendicular lines have negative reciprocal slopes.
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SOL Review: Slope Identification

Directions: Find the slope given the information.

<p>1. Contains the points: $(-2, 5); (3, -4)$</p>	<p>2. Graphed below:</p> 	<p>3. Has the equation: $y = -\frac{2}{3}x + 2$</p>
<p>4. Graphed below:</p> 	<p>5. Parallel to the line that has the equation: $-2x + 4y = 24$</p>	<p>6. Contains the points $(5, 5); (-3, 5)$</p>
<p>7. Has the equation: $x = -5$</p>	<p>8. Perpendicular to the line that contains the points: $(-2, 3); (-4, -1)$</p>	<p>9. Graphed below:</p> 
<p>10. Contains the points: $(-3, -5); (-3, -2)$</p>	<p>11. Graphed below:</p> 	<p>12. Has the equation: $y = -2$</p>