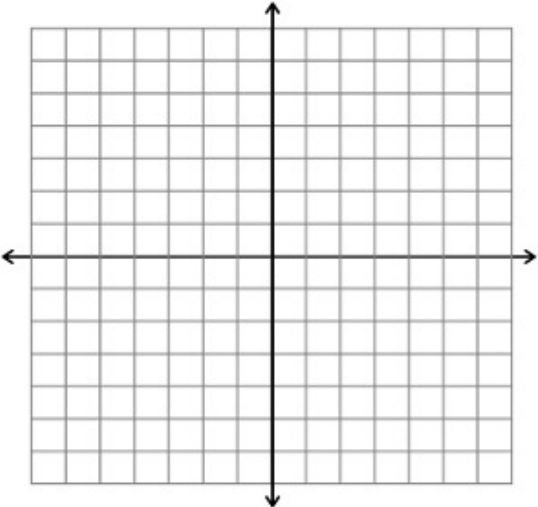
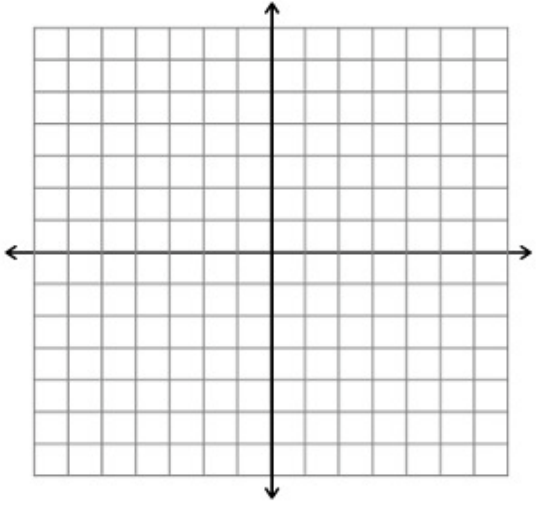


Equation of a line given slope and one point
notes

Name: _____

	From the video: Slope = 3, point on the line (6, -4)	On your own Slope = $\frac{1}{2}$, point on the line (3, 4)
<p>Solve by graphing:</p> <ol style="list-style-type: none"> 1. Graph the given coordinate 2. Use the slope to determine at least 3 other points that would be on the line 3. Connect the points to draw the line and use that to determine the y-intercept 4. Substitute into the equation $y=mx+b$ to determine the equation of the line formed 		
<p>Solve by substitution:</p> <ol style="list-style-type: none"> 1. Use the slope-intercept form of line equation: $y=mx+b$ 2. Substitute the slope in for m 3. Substitute the (x,y) coordinates in for the x and y in the equation 4. Solve for b 5. Substitute into the equation $y=mx+b$ to determine the equation of the line formed 		