## **Linear Equations**

Name:

Hour:

For each problem

- Find the slope
- Find the y-intercept
- Graph the line
- Write in point-slope form
- Write in slope intercept form

$$M = \frac{7 - (-5)}{5 - (-1)} = \frac{12}{6} = 2$$

$$M=2$$
 $b=-3$ 

$$y-7=2(x-5)$$
  
 $y-7=2x-10$   
 $y=2x-3$ 

$$M = \frac{a-1}{5-1} = \frac{1}{4}$$

$$\begin{bmatrix} M=1\\ b=3\\ 4 \end{bmatrix}$$

$$(y-1=\frac{1}{4}(x-1))$$

$$\frac{3-(-3)}{-3-1}=\frac{6}{-3}=-2$$

$$\frac{3 - (-3)}{-3 - (-3)} = \frac{6}{-3} = -2$$

$$\frac{3 - (-3)}{-3 - (-3)} = \frac{6}{-3} = -2$$

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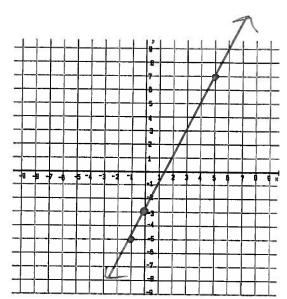
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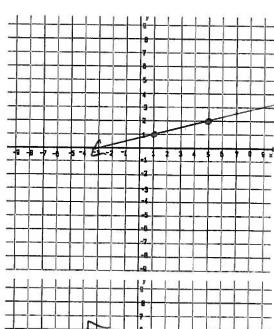
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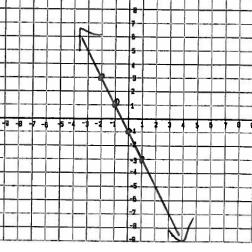
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$$y = -ax - 1$$







$$4. x + 4y = 16$$

$$4y = -x + 16$$
 $y = -\frac{1}{4}x + 4$ 

$$y-3=-\frac{1}{4}(x-4)$$

$$5. -3x + 2y = 6$$

$$M = \frac{3}{2}$$
 $b = 3$ 

Using the point: (2,6) y-6=3(x-2)

$$3x + y = -4$$

$$y = -3x - 4$$

using the paint: (-1,-1)

$$y+1 = -3(x+1)$$

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