Guided Learning Activity

Graphing with Slope-Intercept Form

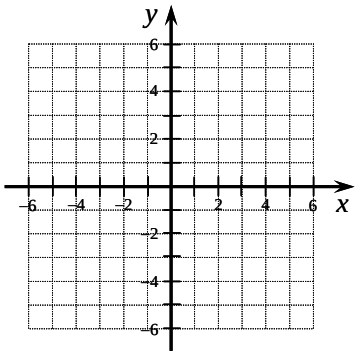
Slope-Intercept Form: $y = mx + b$ where m is the slope and $(0, b)$ is the y-intercept.

To graph using slope-intercept form:

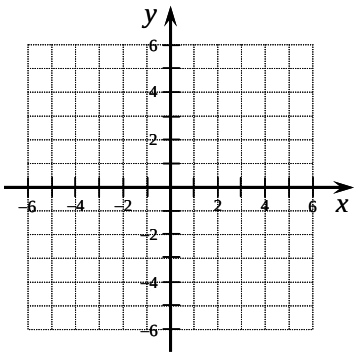
1. Graph a point (the y-intercept).

2. Use $m = \dfrac{\text{rise}}{\text{run}}$ to move from that point to locate another point on the line.

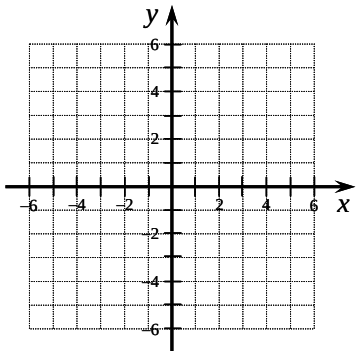
1. Graph: $y = \frac{1}{2}x + 3$



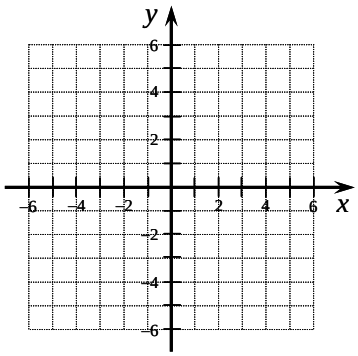
2. Graph: $y = 3x - 2$



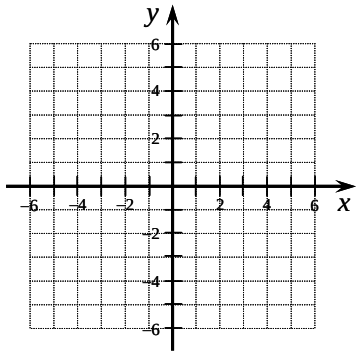
3. Graph: $y = -\frac{3}{2}x + 3$



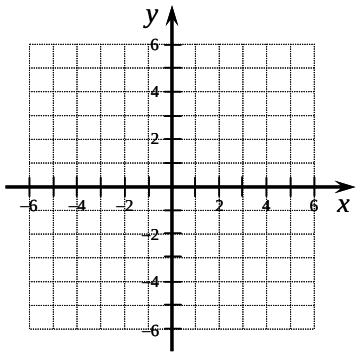
4. Graph: $y = -2x$



5. Graph: $3x - 4y = -4$



6. Graph: $y - x = 2$

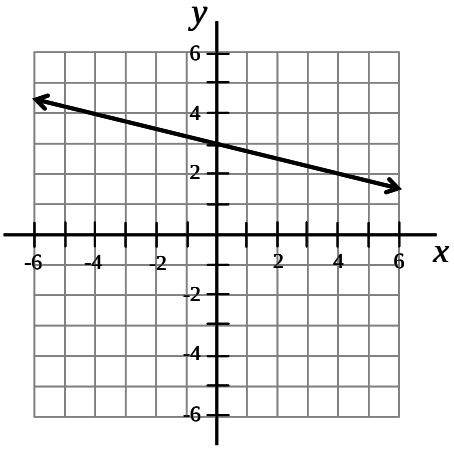


Student Activity

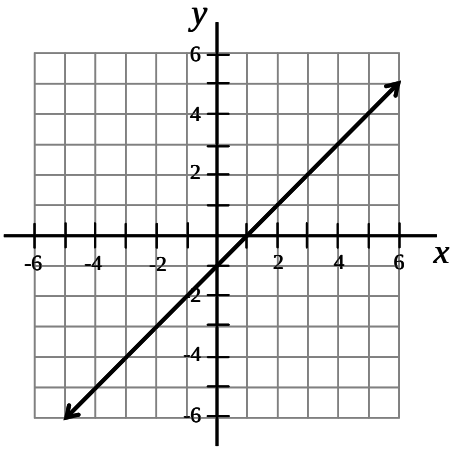
Evidence from the Graph

Directions: For each line that is graphed below, determine the equation of the line and write it in slope-intercept form.

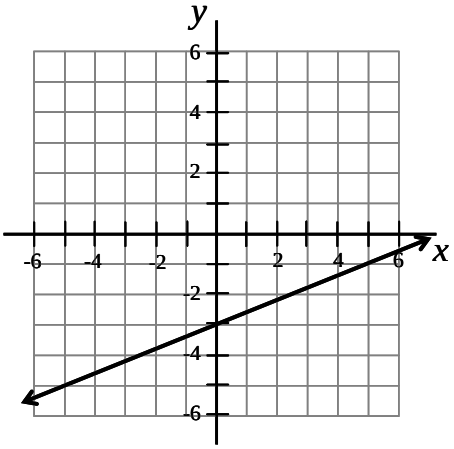
1.



2.



3.



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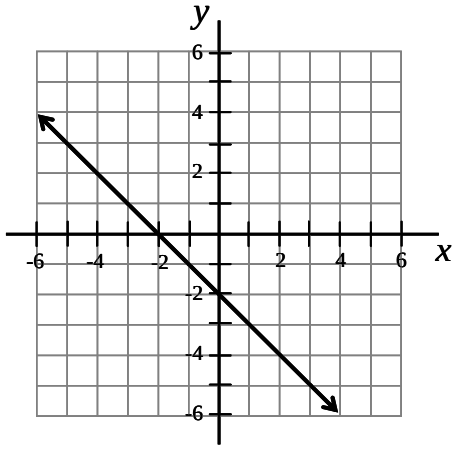
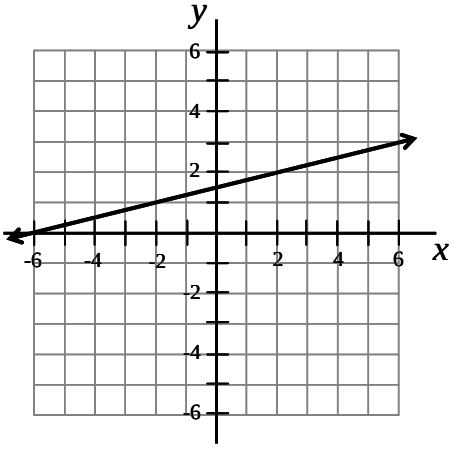


5.



6.