

5.3: Write Linear Equations In Point-Slope Form

- Goals:** *Write an equation of a line in point-slope form given a point and slope
*Graph an equation of a line written in point-slope form
*Write an equation of a line given two points
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Point-Slope Form:

Write an equation in point-slope form given a point and the slope:

Ex: $(4, -3), m = 2$

Ex: $(-1, 4), m = -2$

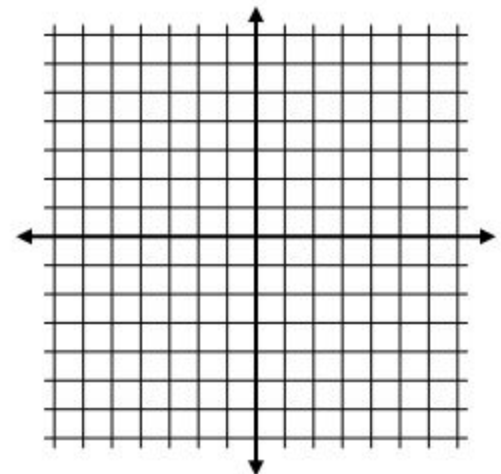
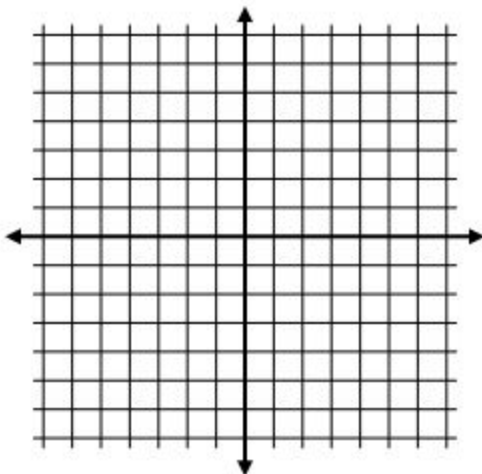
Ex: $(-3, 1), m = 3$

Ex: $(3, 7), m = -1$

Graph an equation in point-slope form:

Ex: $y + 2 = \frac{2}{3}(x - 3)$

Ex: $y - 1 = -(x - 2)$

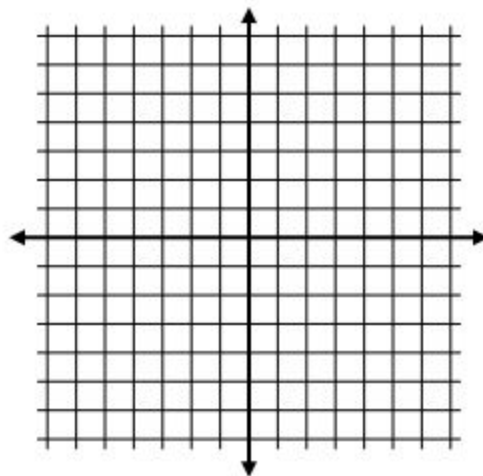
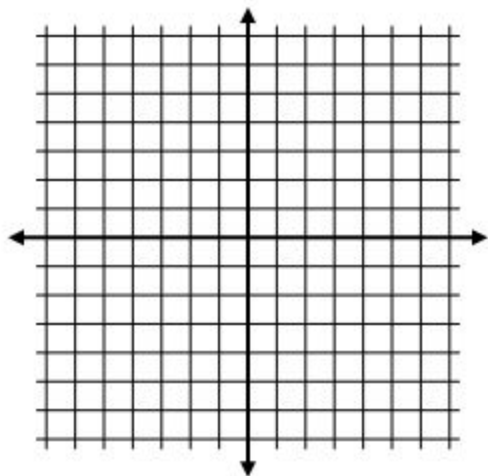


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Ex: $y - 2 = \frac{1}{2}(x + 2)$

Ex: $y + 4 = -2(x + 2)$



Write the equation of the line in point-slope form given two points:

Ex: $(-1, 3), (1, 1)$

Ex: $(-2, 3), (1, -3)$

Ex: $(2, 3), (4, 4)$