

Three Basic Forms of a Line

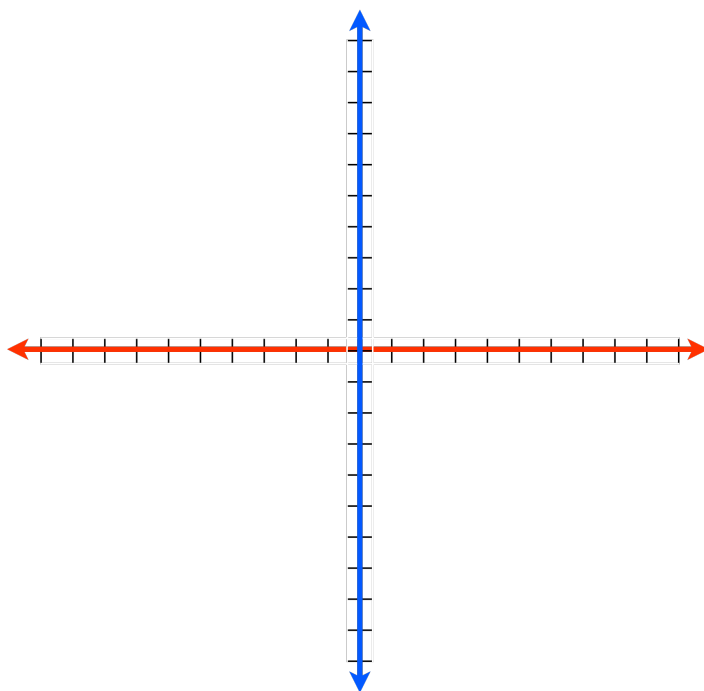
Slope-Intercept Form

Point-Slope Form

Standard Form

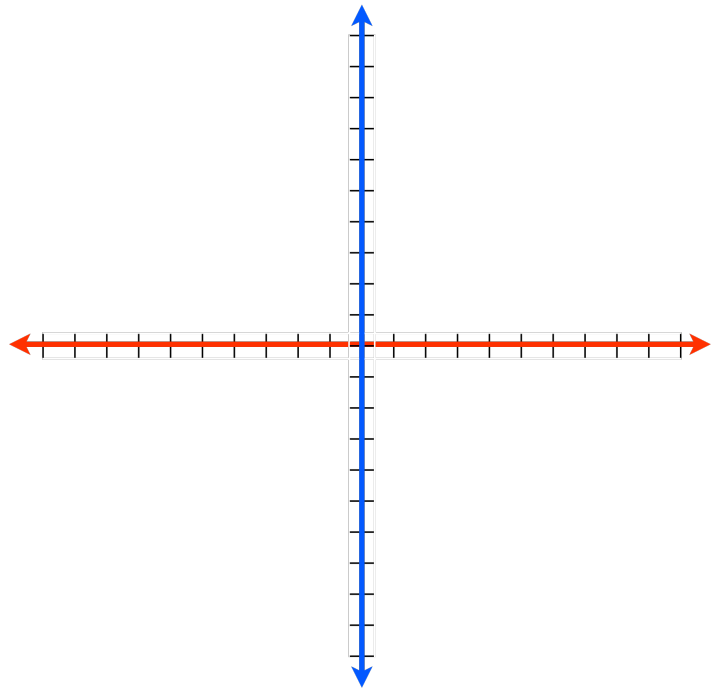
Graphing Lines in
Slope-Intercept Form

$$y = -2x + 4$$



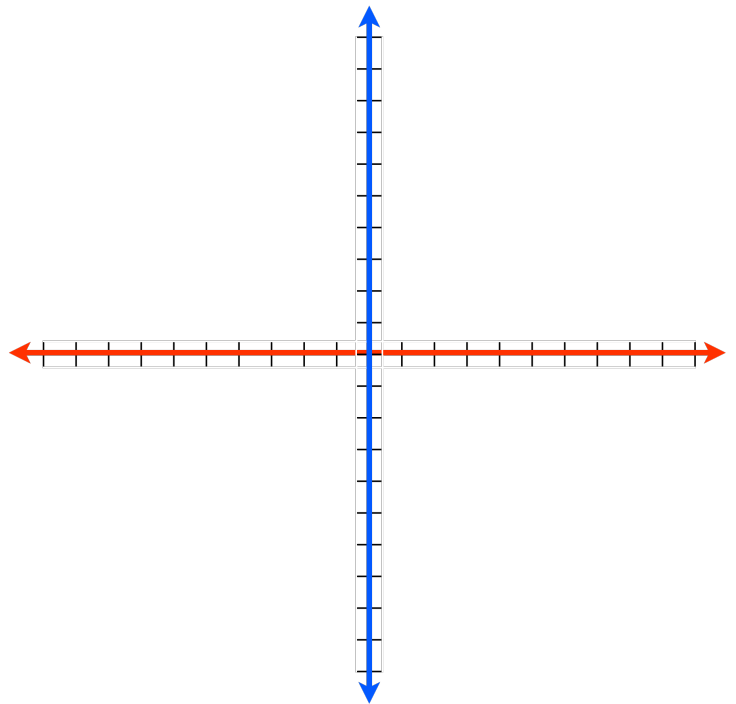
Graphing Lines in Slope-Intercept Form

$$y = x - 6$$



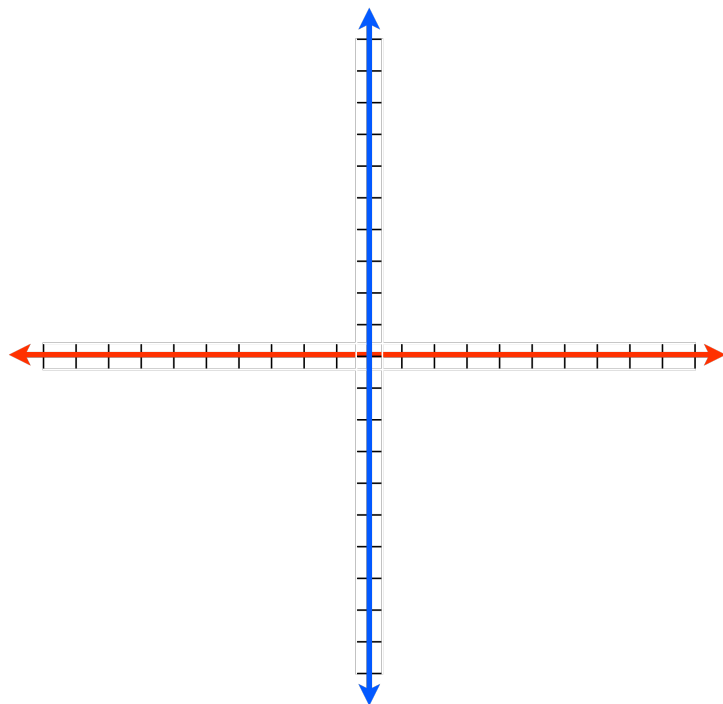
Graphing Lines in Point-Slope Form

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



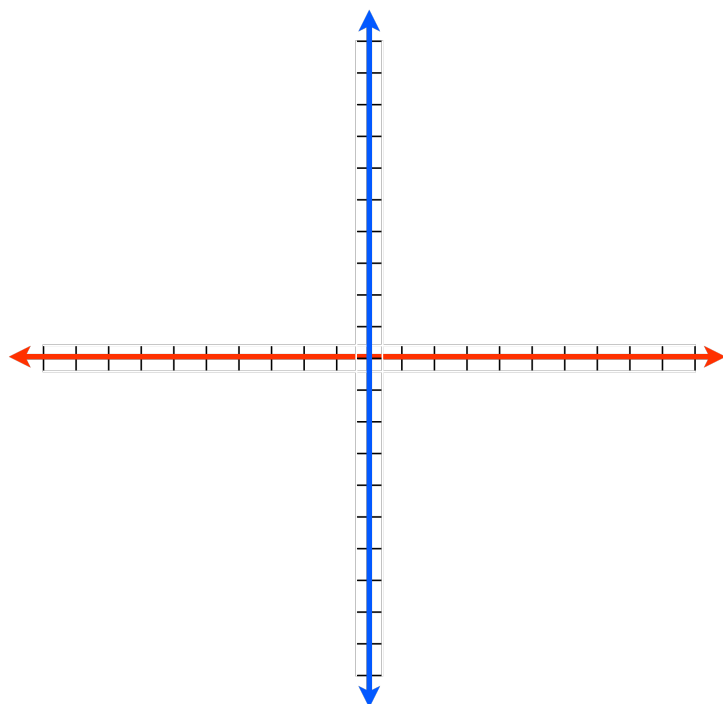
Graphing Lines in Point-Slope Form

$$y + 6 = 2(x - 1)$$



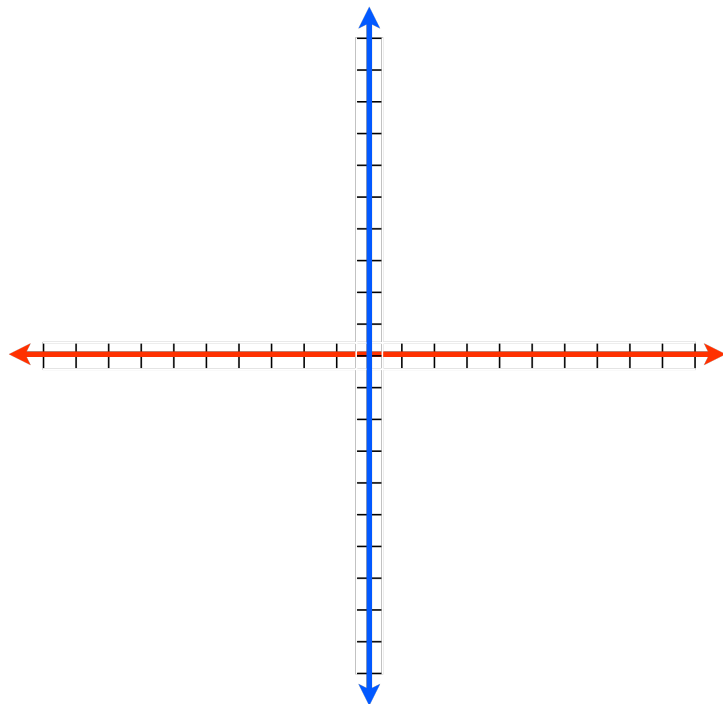
Graphing Lines in Standard Form

$$3x - 2y = 12$$



Graphing Lines in Standard Form

$$2x + y = 10$$



Three Basic Forms of a Line

Slope-Intercept Form

$$y = mx + b$$

$m = \text{slope}$

$b = \text{y-intercept}$

Point-Slope Form

$$y - y_1 = m(x - x_1)$$

$m = \text{slope}$

$(x_1, y_1) = \text{Point}$

Standard Form

$$Ax + By = C$$

A must be positive

A , B , and C must be integers