

Slope-Intercept: $y = \frac{2}{3}x + 2$

Slope (m): $\frac{2}{3}$

y-intercept (b): 2

Standard Form: $y = \frac{2}{3}x + 2$

$-2x + 3y = 6$

$-\frac{2}{3}x - \frac{-2}{3}x$

$3 \cdot \left[\frac{-2}{3}x + y = 2 \right]$

x-intercept: $-\frac{2}{3}x = \frac{6}{-2}$

x_1, y_1
 $x: (-3, 0)$

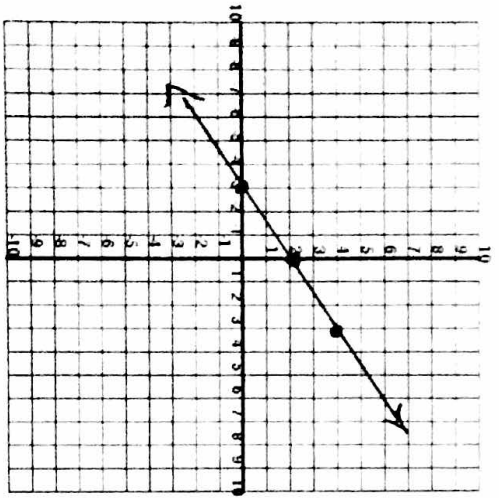
y-intercept: $\frac{2y}{3} = \frac{6}{3}$

$y: (0, 2)$

Point-Slope Form:
(choose any point)

$y - 0 = \frac{2}{3}(x - (-3))$

Graph:



Slope-Intercept: $y = -\frac{3}{5}x - 3$

Slope (m): $-\frac{3}{5}$

y-intercept (b): -3

Standard Form: $y = -\frac{3}{5}x - 3$

$3x + 5y = -15$

$+\frac{3}{5}x + \frac{3}{5}x$

$5 \cdot \left[\frac{3}{5}x + y = -3 \right]$

x-intercept: $\frac{3x}{5} = -\frac{15}{3}$

x_1, y_1
 $x: (-5, 0)$

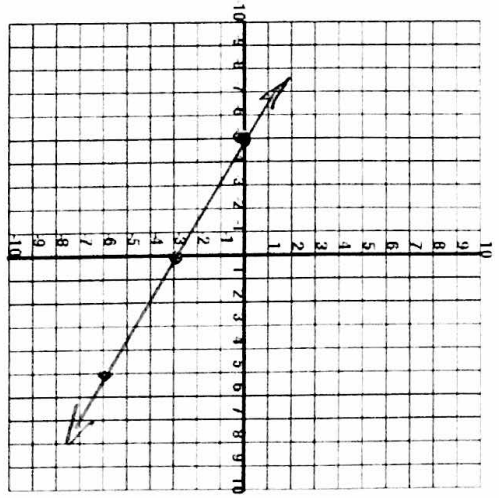
y-intercept: $\frac{5y}{5} = -\frac{15}{5}$

$y: (0, -3)$

Point-Slope Form:

$y - 0 = -\frac{3}{5}(x - (-5))$

Graph:



Standard Form: $3x - 4y = 12$

x-intercept: $\frac{3x}{3} = \frac{12}{3}$ $X: (4, 0)$

y-intercept: $\frac{-4y}{-4} = \frac{-12}{-4}$ $y: (0, -3)$

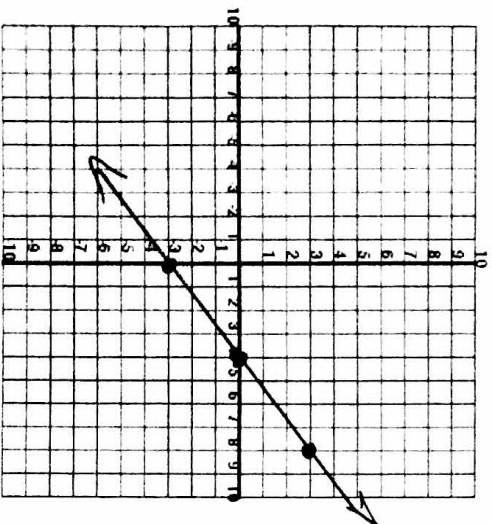
Slope-Intercept: $3x - 4y = 12$
 $\frac{-4y}{-4} = \frac{-3x + 12}{-4}$
 $y = \frac{3}{4}x - 3$

Slope (m): $\frac{3}{4}$

y-intercept (b): -3

Point-Slope Form: $y - 0 = \frac{3}{4}(x - 4)$

Graph:



Standard Form: $-2x + 5y = 10$

x-intercept: $\frac{-2x}{-2} = \frac{10}{-2}$ $X: (-5, 0)$

y-intercept: $\frac{5y}{5} = \frac{10}{5}$ $y: (0, 2)$

Slope-Intercept: $-2x + 5y = 10$
 $\frac{5y}{5} = \frac{2x + 10}{5}$
 $y = \frac{2}{5}x + 2$

Slope (m): $\frac{2}{5}$

y-intercept (b): 2

Point-Slope Form:

Graph:

