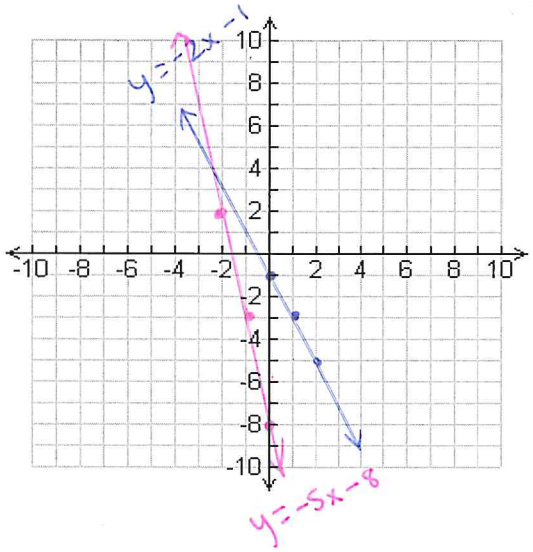
GRAPHING THE EQUATION OF A LINE

Rewrite the following equations in slope y-intercept form. Graph the line using the slope and y-int.

1. $2x + y - 1 = 0$

$y = -2x - 1$

$m = \frac{-2}{1}$ $b = -1$



2. $5x + y + 8 = 0$

$y = -5x - 8$

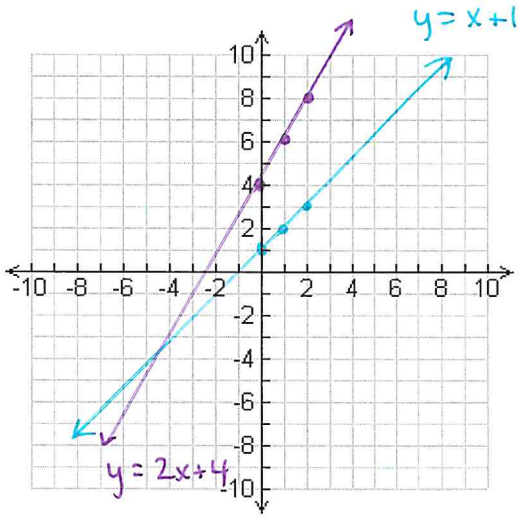
$m = \frac{-5}{1}$ $b = -8$

3. $x - y + 1 = 0$

$\frac{-y}{-1} = \frac{-x}{-1} - \frac{1}{-1}$

$y = x + 1$

$m = \frac{1}{1}$ $b = 1$



4. $2x - y + 4 = 0$

$\frac{-y}{-1} = \frac{-2x}{-1} - \frac{4}{-1}$

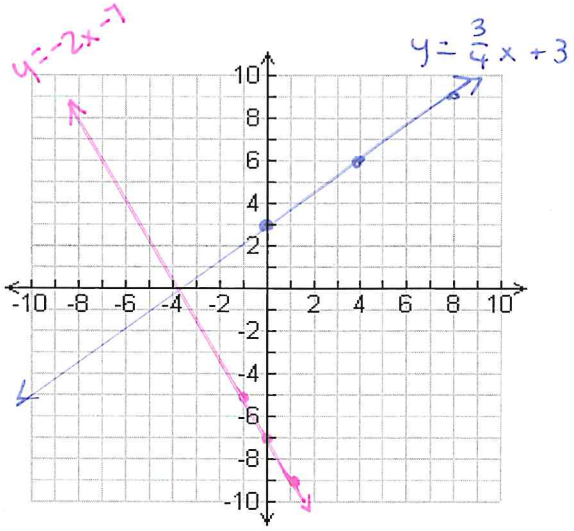
$y = 2x + 4$

$m = \frac{2}{1}$ $b = 4$

5. $2x + y + 7 = 0$

$y = -2x - 7$

$m = \frac{-2}{1}$ $b = -7$



6. $3x - 4y + 12 = 0$

$\frac{-4y}{-4} = \frac{-3x}{-4} \frac{-12}{-4}$

$y = \frac{3}{4}x + 3$

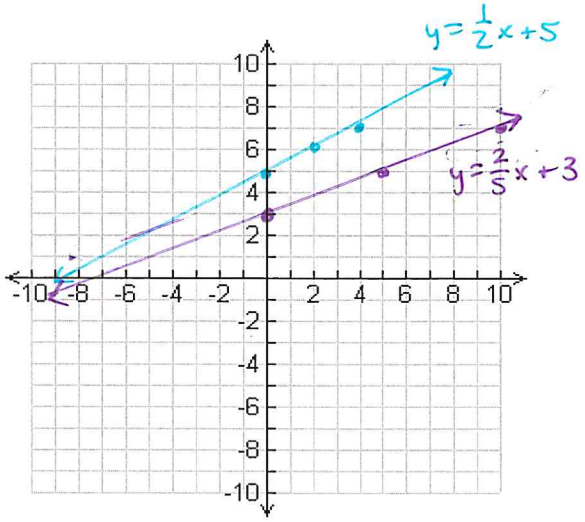
$m = \frac{3}{4}$ $b = 3$

7. $x + 2y + 10 = 0$

$\frac{-2y}{-2} = \frac{-x}{-2} \frac{-10}{-2}$

$y = \frac{1}{2}x + 5$

$m = \frac{1}{2}$ $b = 5$



8. $-2x + 5y - 15 = 0$

$\frac{5y}{5} = \frac{2x}{5} + \frac{15}{5}$

$y = \frac{2}{5}x + 3$

$m = \frac{2}{5}$ $b = 3$