

$$y = mx + b$$

$$m = \text{slope} = \frac{\text{rise}}{\text{run}} \begin{matrix} + \\ \text{up/down} \\ - \\ \text{left/right} \\ + \end{matrix}$$

$b = y\text{-intercept}$
on $y\text{-axis}$
do first

Algebra 2

Name _____

5.1C Graphing Linear Systems (with Delta Math)

Date _____ Period _____

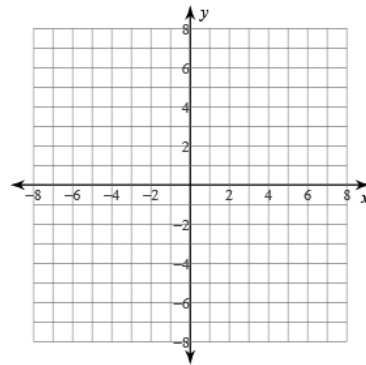
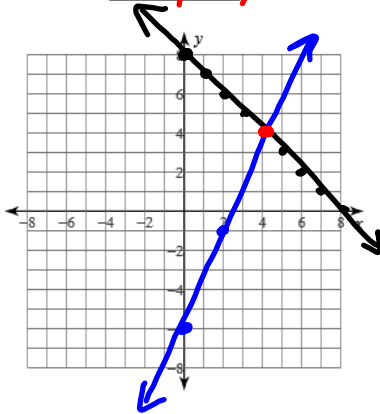
Solve the system of equations graphically. You must draw the line on paper and state the answer in addition to answering on Delta Math.

1) $y = -x + 8$ $m = -1$ $b = 8$ $\begin{matrix} -1 \text{ down } 1 \\ 1 \text{ right } 1 \end{matrix}$ | 2) $y = \frac{1}{2}x + 6$ $m = \underline{\hspace{1cm}}$ $b = \underline{\hspace{1cm}}$

$y = \frac{5}{2}x - 6$ $m = \frac{5}{2}$ $b = -6$ $\begin{matrix} 5 \text{ up } 5 \\ 2 \text{ right } 2 \end{matrix}$ | $x + 6y = 12$ $m = \underline{\hspace{1cm}}$ $b = \underline{\hspace{1cm}}$

Solution: $(4, 4)$

Solution: _____



3) $y = -\frac{1}{3}x + 5$ $m = -\frac{1}{3}$ $b = 5$

4) $y = x - 5$ $m = \underline{\hspace{1cm}}$ $b = \underline{\hspace{1cm}}$

$2x - 3y = 3$ $m = \frac{2}{3}$ $b = -1$

$2x + 5y = 10$ $m = \underline{\hspace{1cm}}$ $b = \underline{\hspace{1cm}}$

Solution: $(4, 3)$

Solution: _____

