Solve each system by graphing.

1) $y = 2x - 2$

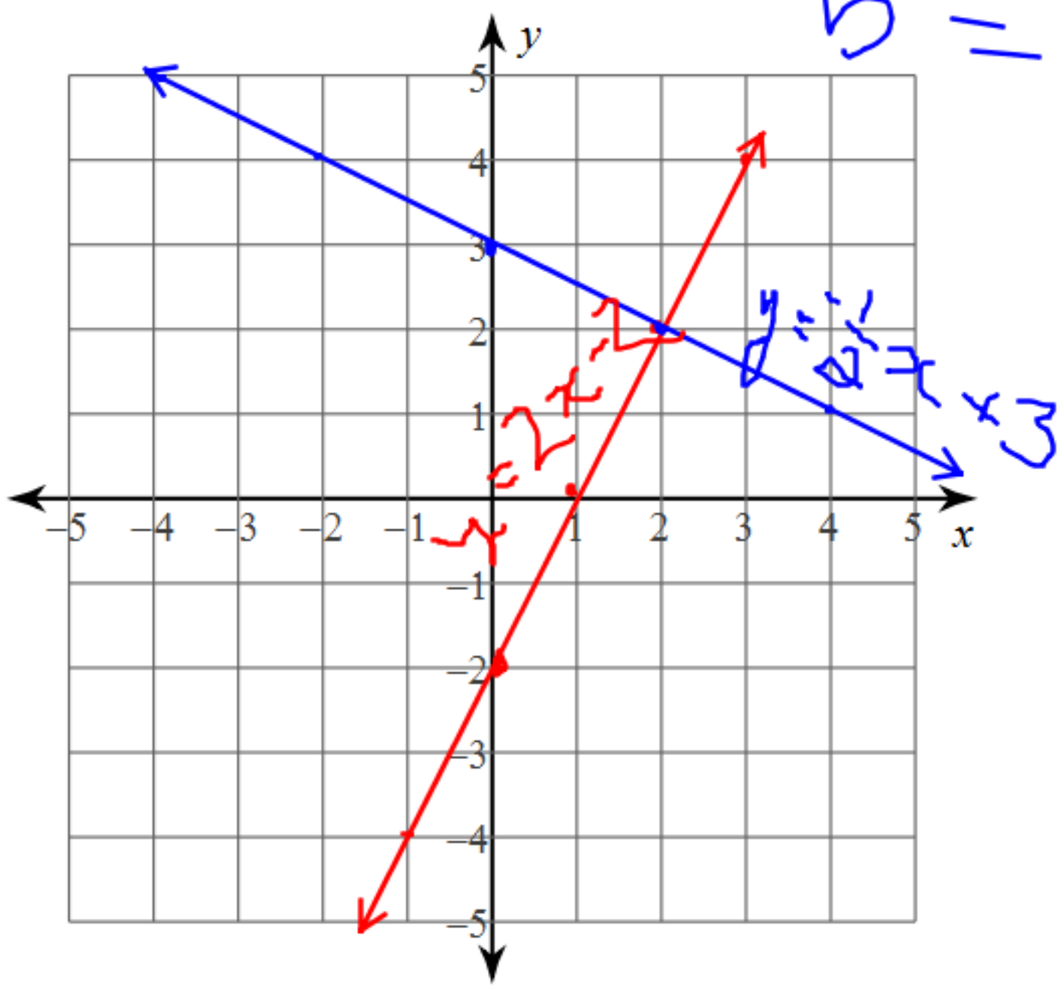
$y = -\frac{1}{2}x + 3$

$m = 2$

$b = -2$

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

$b = 3$



$y = mx + b$

slope

y-intercept

P of I = (2, 2)

Solve each system by graphing.

2) $y = -7x - 4$

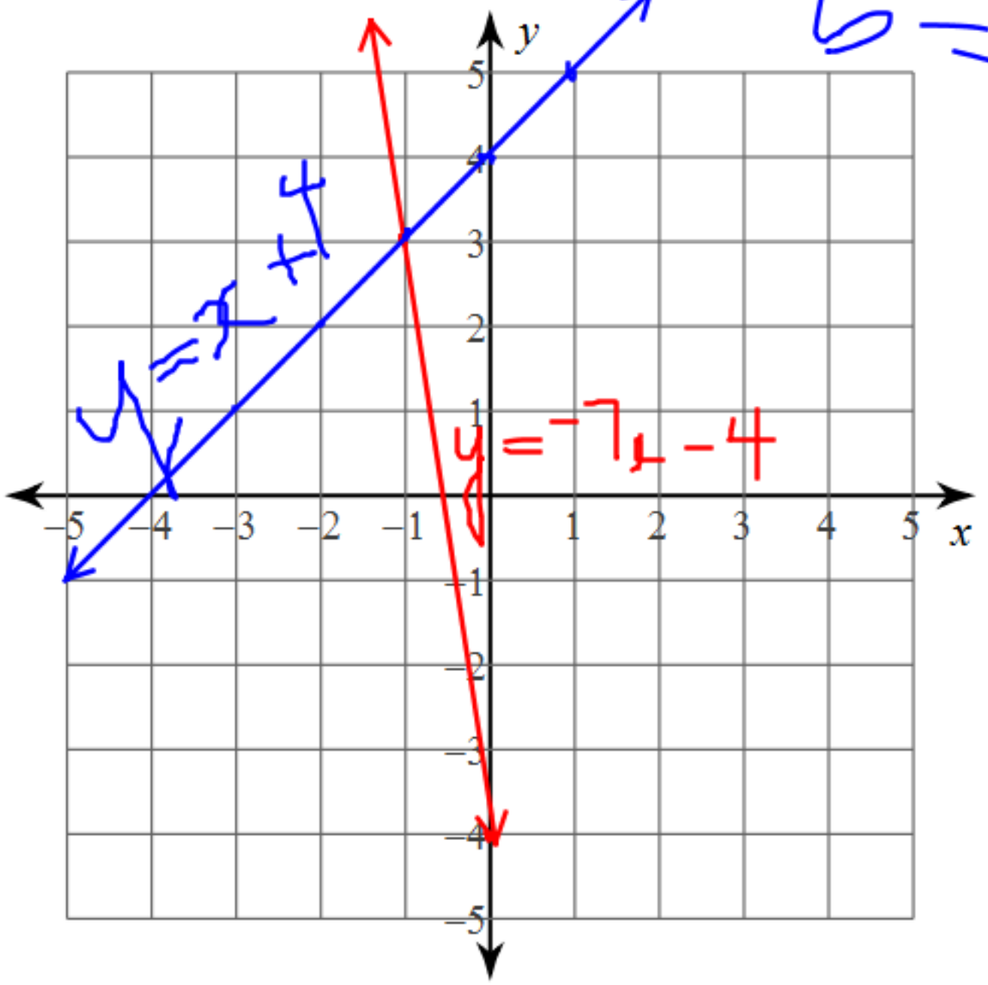
$y = x + 4$

$m = -7$

$b = -4$

$m = 1$

$b = 4$



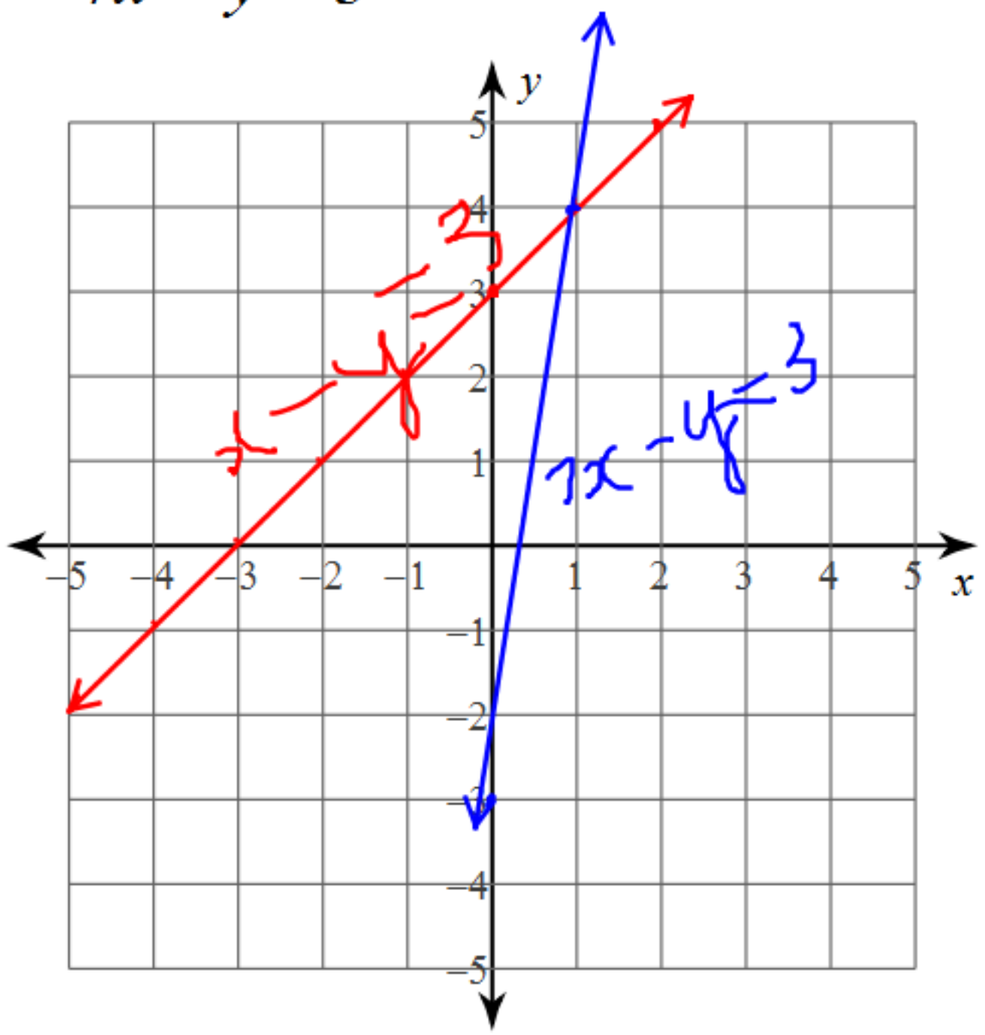
Pof I = (−1, 3)

Solve each system by graphing.

3) $x - y = -3$
$7x - y = 3$

x+3=y

m=1
b=3



7x-3=y

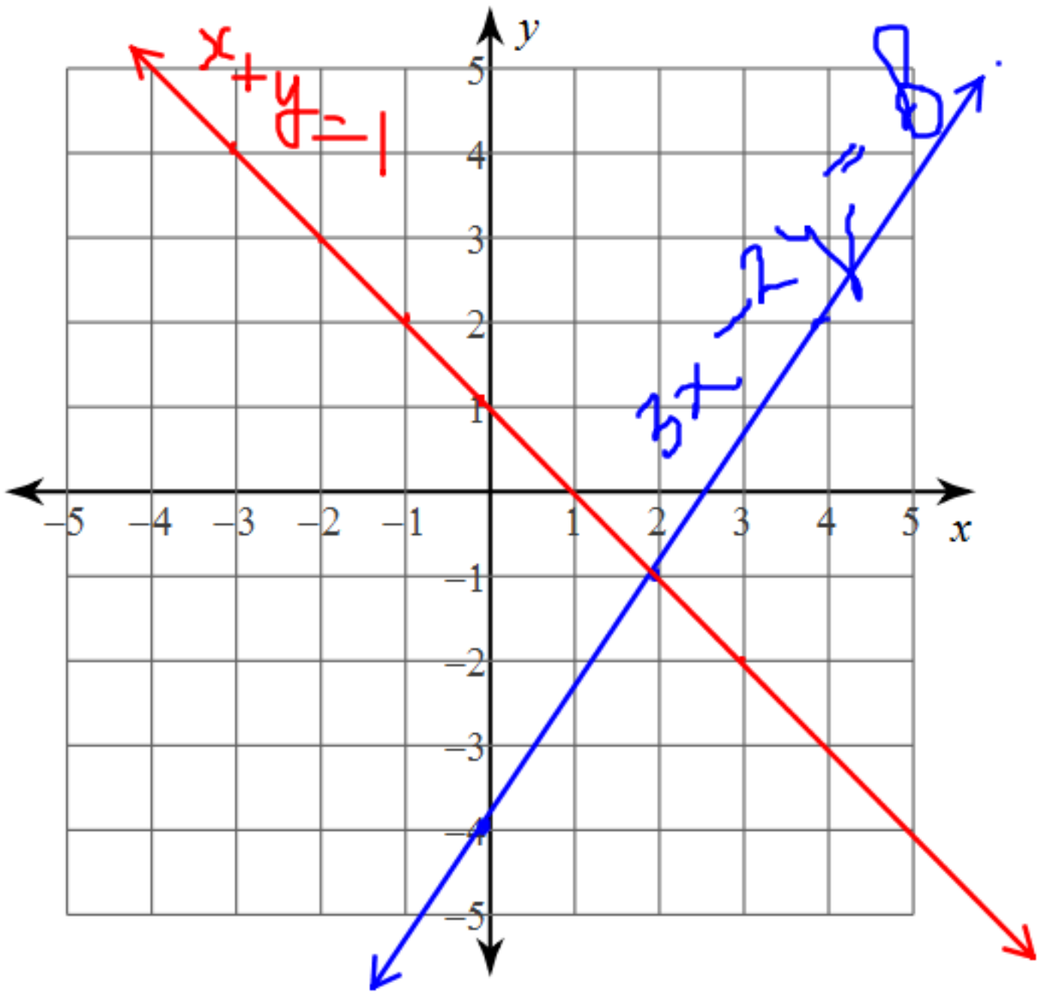
m=7

b=-3

P of I (1, 4)

Solve each system by graphing.

4) $3x - 2y = 8$
$x + y = 1$



$y = mx + b$

$\frac{-2y}{-2} = \frac{-3x}{-2} + \frac{8}{-2}$

$y = \frac{3}{2}x - 4$

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

$b = -4$

$y = -x + 1$

$m = -1$

$b = 1$

Point of I = $(2, -1)$

Solve each system by graphing.

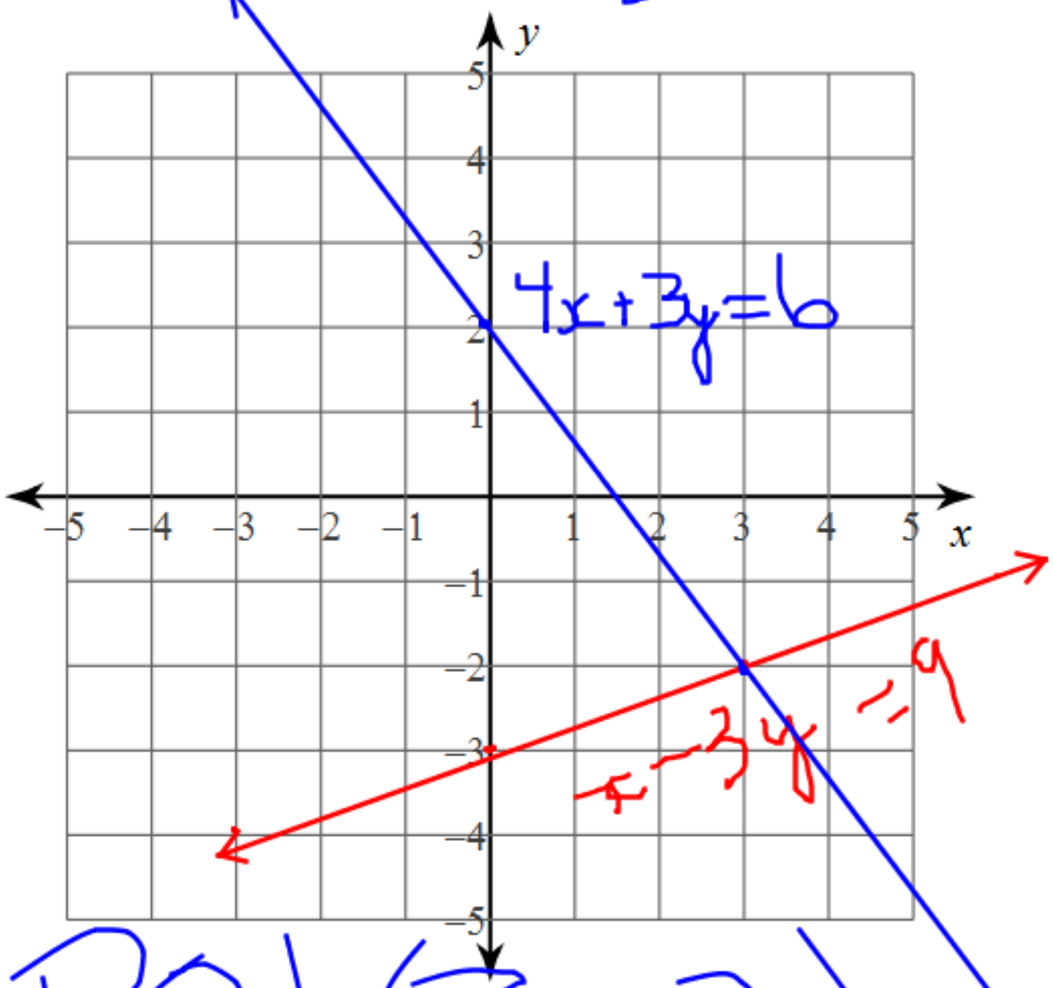
5) $x - 3y = 9$
$4x + 3y = 6$

$\frac{3y}{3} = \frac{-4}{3}x + \frac{6}{3}$

$y = \frac{-4}{3}x + 2$

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

$b = 2$



P01(3, −2)

$x - 3y = 9$

$\frac{-3y}{-3} = \frac{-x}{-3} + \frac{9}{-3}$

$y = \frac{1}{3}x - 3$

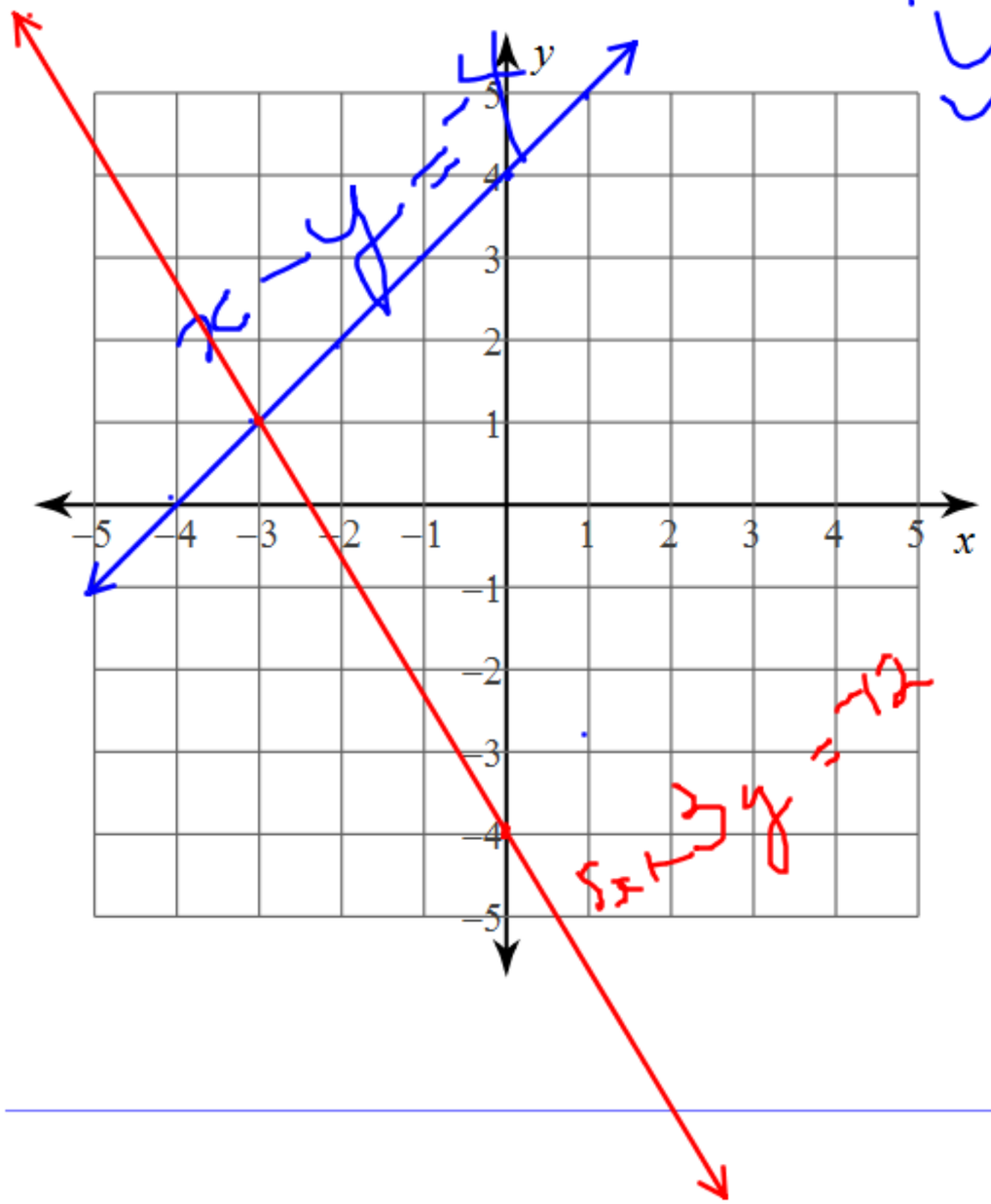
$M = \frac{1}{3}$

$B = -3$

Solve each system by graphing.

6) $x - y = -4$

$5x + 3y = -12$



$-y = -1x - 4$ $\quad m = 1$

$y = x + 4$ $\quad b = 4$

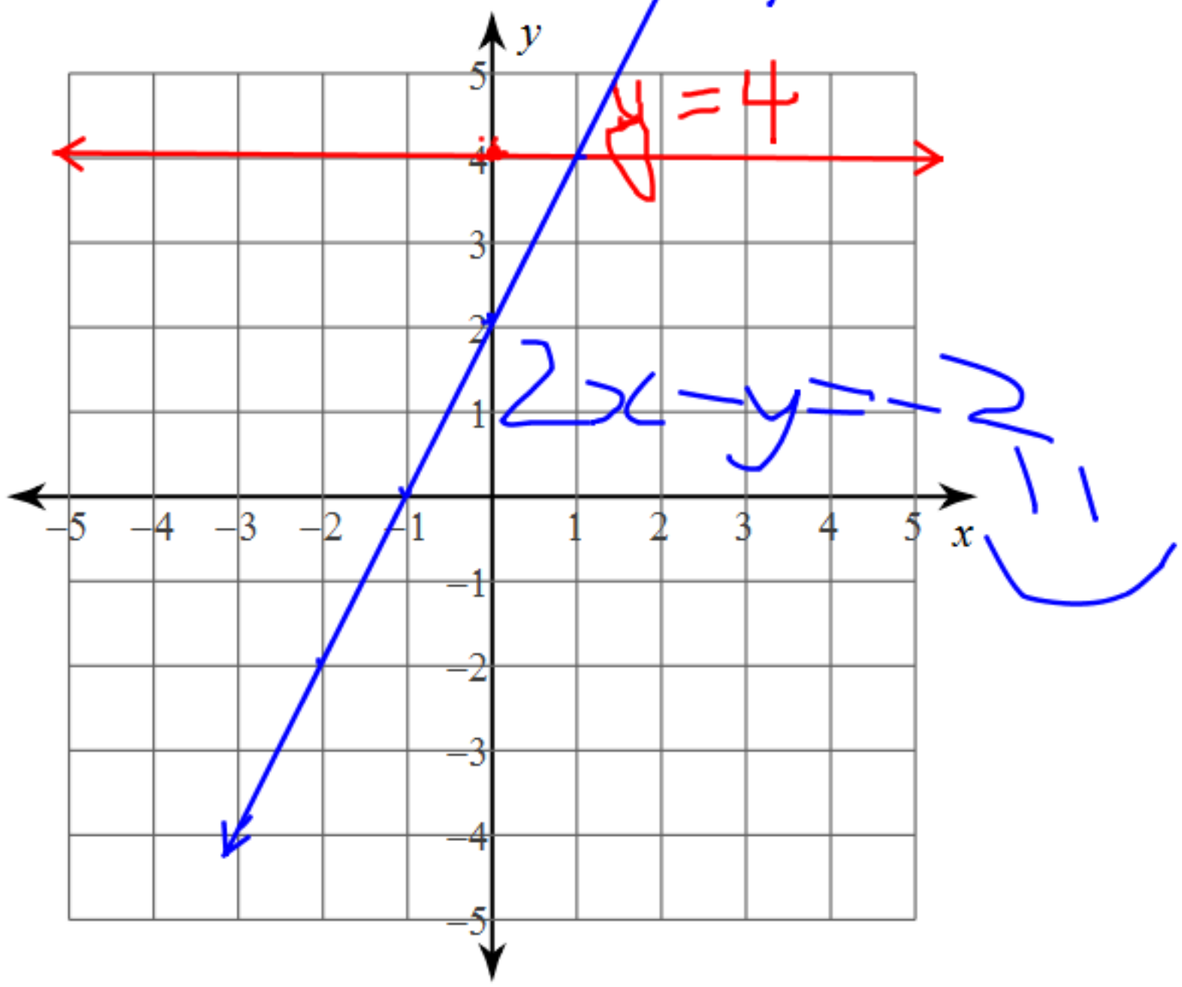
$\frac{3y}{3} = \frac{-5x - 12}{3}$ $\quad m = -\frac{5}{3}$

$y = -\frac{5}{3}x - 4$ $\quad b = -4$

POI = (−3, 1)

Solve each system by graphing.

7) $y = 4$
$2x - y = -2$

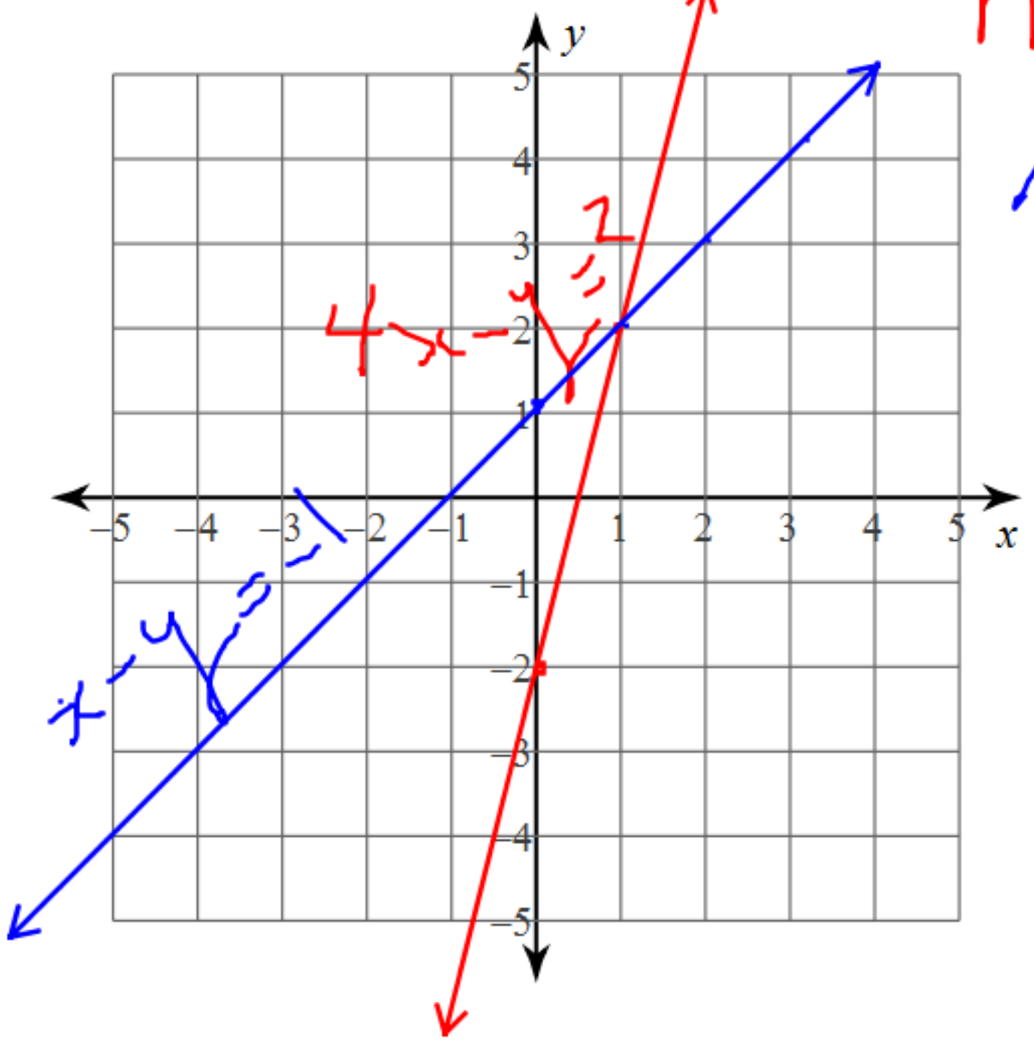


m = 0
$y = \frac{2x}{1} + 2$
y = 4
2x − y = −2

$m = \frac{2}{1}$
b = 2
POI = (1, 4)

Solve each system by graphing.

8) $4x - y = 2$
$x - y = -1$



① $4x - y = 2$
$-y = -4x + 2$
$-1 \quad -1 \quad -1$
$y = 4x - 2$
$m = 4 \quad b = -2$

② $x - y = -1$
$-y = -x - 1$
$-1 \quad -1 \quad -1$
$y = x + 1$
$m = 1 \quad b = 1$

Point $(-2, 1)$

Solve each system by graphing.

+3 +4 +3 +4

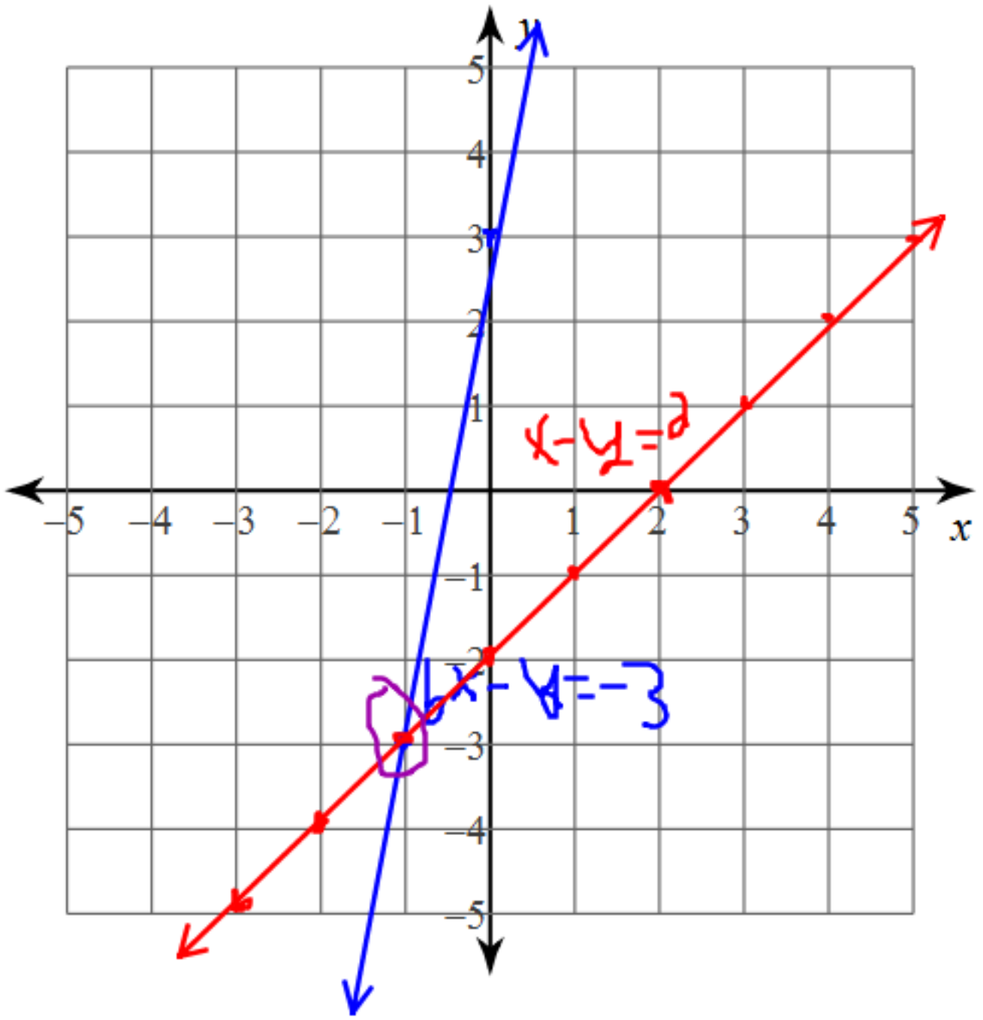
9) $6x - y = -3$

$x - y = 2$

6x+3 = y

M = 6

b = 3



x - 2 = y

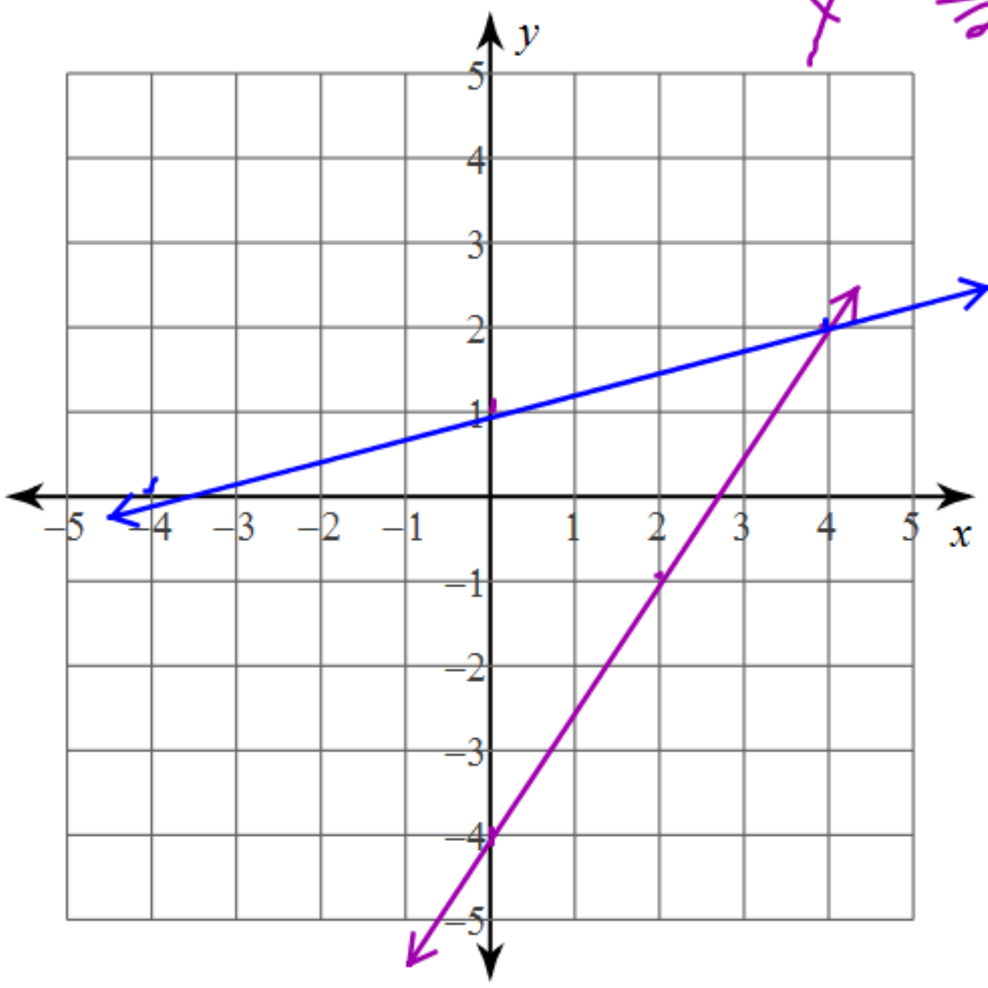
M = 1

b = -2

Pt of I = (-1, -3)

Solve each system by graphing.

10) $3x - 2y = 8$
$x - 4y = -4$



$-3 \quad -3$
$\frac{-2y}{-2} = \frac{-3x + 8}{-2}$
$y = \frac{3}{2}x - 4$

$m = \frac{3}{2}$ $b = -4$

$-x \quad x$
$-4y = -x - 4$
$\frac{-4y}{-4} = \frac{-x - 4}{-4}$
$y = \frac{1}{4}x + 1$

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

POI (4, 2)

Solve each system by graphing.

5) $x - 3y = 9$
$4x + 3y = 6$