I can solve systems graphically

3.1   (1-7 on mathxl)

Sep 30-8:05 AM

Determine if the ordered pair is a solution

(2,3)   2x - y = 1   5x - 3y = 1

x y

$2(2) - 3 = 1$
$4 - 3 = 1$ ✓
$1 = 1$ ✓

$5(2) - 3(3) = 1$
$10 - 9 = 1$ ✓
yes $1 = 1$ ✓

Determine if the ordered pair is a solution

(-5, 1)

$$x + 5y = 0 \qquad\qquad y = 2x + 9$$

$-5 + 5(1) = 0 \qquad\qquad 1 = 2(-5) + 9$

$-5 + 5 = 0 \qquad\qquad\quad 1 = -10 + 9$

$0 = 0 \checkmark \qquad\qquad\qquad 1 = -1$

NO

$y - x = 1$

$+ x + x$

$y = x + \boxed{1}$

$m = 1$

$b = (0, 1)$

$y + x = 3$

$- x - x$

$y = -1x + 3$

$m = -1$

$b = (0, 3)$

$\boxed{(1, 2)}$

$3x + y = 5$

$-3x \qquad -3x$

$y = -3x + 5$

$m = \frac{-3}{1}$

$b = (0, 5)$

$x - 2y = 4$

$-x \qquad -x$

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

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

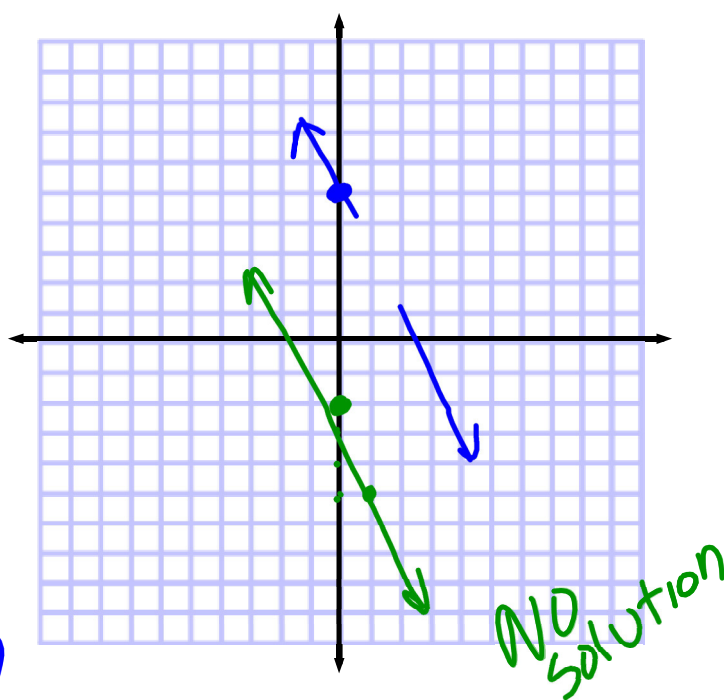$b = (0, -2)$

$(2, -1)$
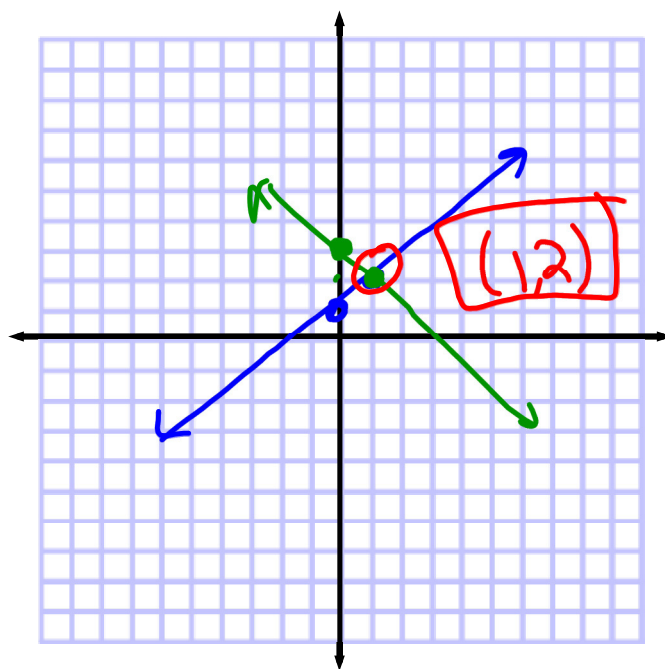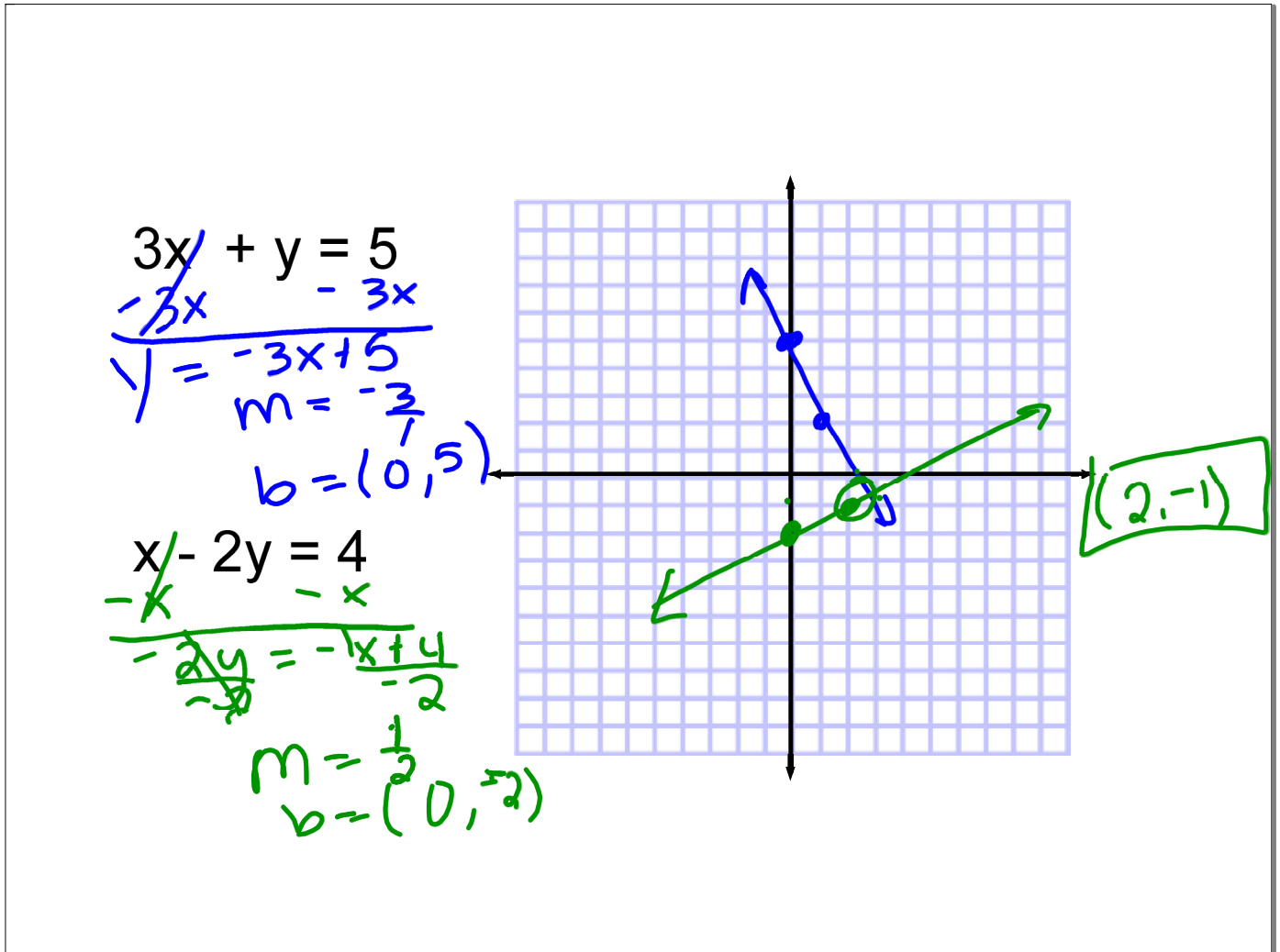
$$y = -3x + 5$$

$$m = \frac{-3}{1}$$

$$b = (0, 5)$$

$$y = -3x - 2$$

$$m = \frac{-3}{1}$$

$$b = (0, 2)$$

NO Solution

The sum of two numbers is 23. The first number is 3/20 of the second number.

$$X + Y = 23$$

$$X = \frac{3}{20} Y$$

A basketball player scored

34 times during one game. He scored a total of

54 points, two for each field goal and one for each free throw. How many field goals did he make? How many free throws?

$$x + y = 34$$

$$2x + 1y = 54$$

$$3y - 2x = 6$$

$$-12y + 8x = -24$$