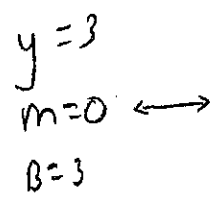
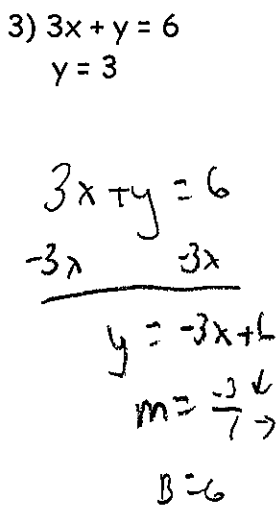
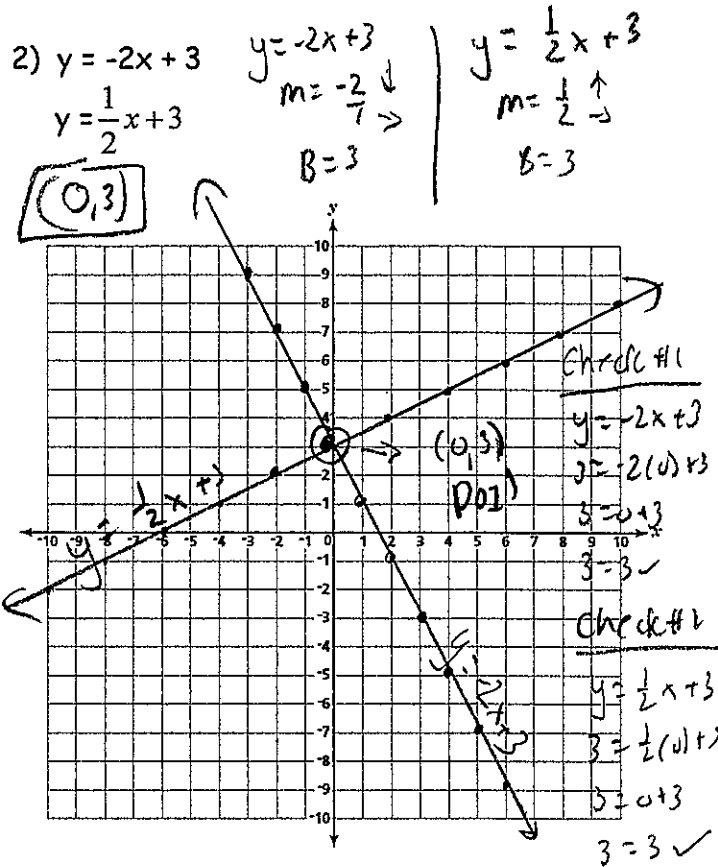
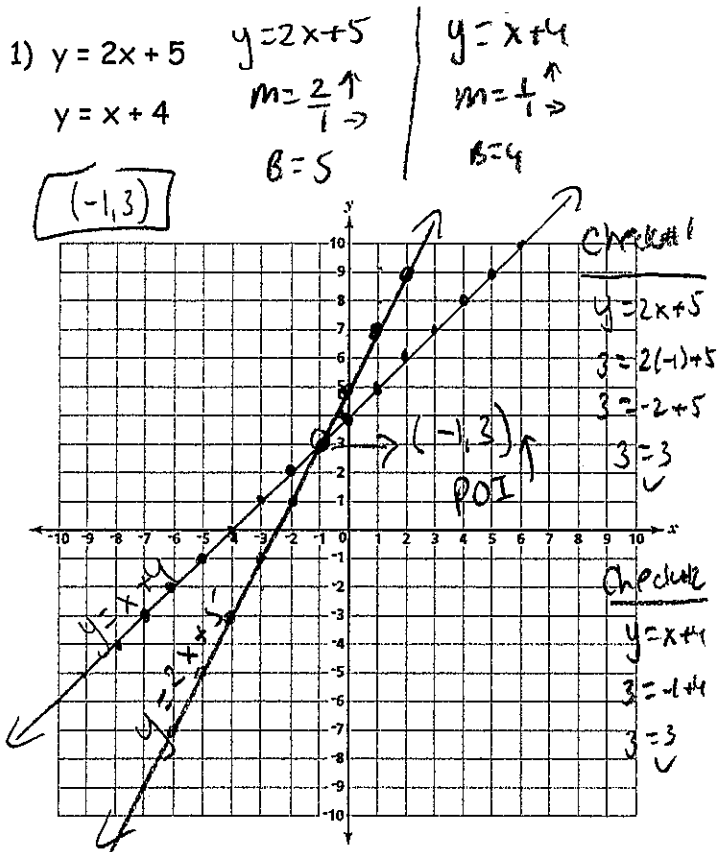
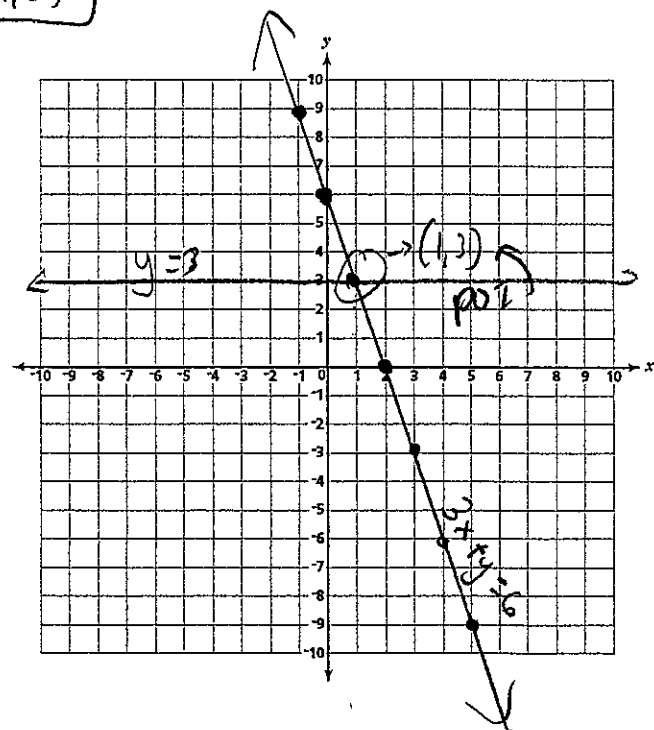


Homework #63

Solve each system of equations graphically, and check your answer to ONE of them.



$(1, 3)$



$$4) y = \frac{1}{3}x - 3$$

$$2x - y = 8$$

$$(3, -2)$$

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

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

$$b = -3$$

$$2x - y = 8$$

$$-2x \quad -2x$$

$$\underline{-y = -2x + 8}$$

$$-1 \quad -1 \quad -1$$

$$y = 2x - 8$$

$$m = 2 \uparrow$$

$$b = -8$$

Check #1

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

$$-2 = \frac{1}{3}(3) - 3$$

$$-2 = 1 - 3$$

$$-2 = -2$$

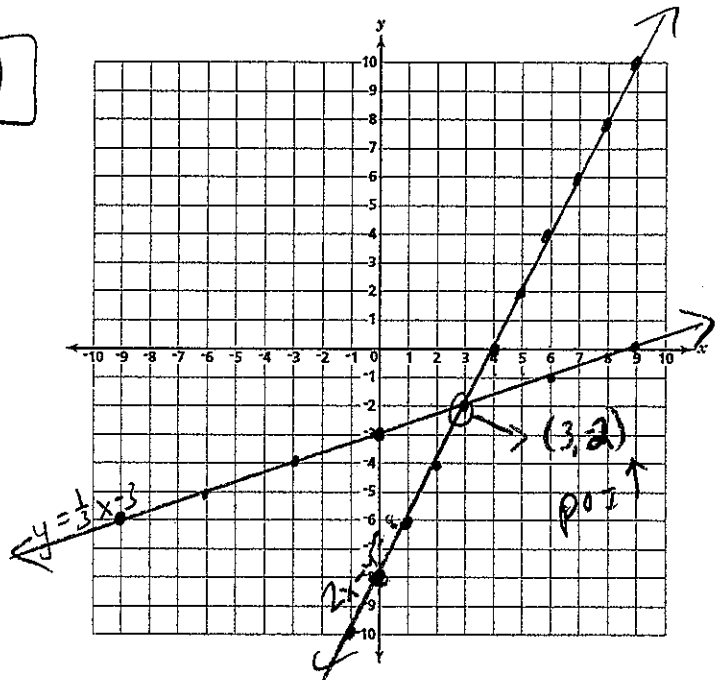
Check #2

$$2x - y = 8$$

$$2(3) - (-2) = 8$$

$$6 + 2 = 8$$

$$8 = 8$$



$$5) 2x = y + 9$$

$$6x + 3y = 15$$

$$(3\frac{1}{2}, -2) \leftarrow \text{get via calculator}$$

2nd Window

$$\Delta Tbl = .5$$

OR

2nd Trace

B: Intersect

Enter X3

$$2x = y + 9$$

$$-9 \quad -9$$

$$y = 2x - 9$$

$$m = 2 \uparrow$$

$$b = -9$$

$$6x + 3y = 15$$

$$-6x \quad -6x$$

$$\frac{3y}{3} = \frac{-6x + 15}{3}$$

$$y = -2x + 5$$

$$m = -2 \downarrow$$

$$b = 5$$

Check #1

$$2x = y + 9$$

$$2(3\frac{1}{2}) = -2 + 9$$

$$7 = 7$$

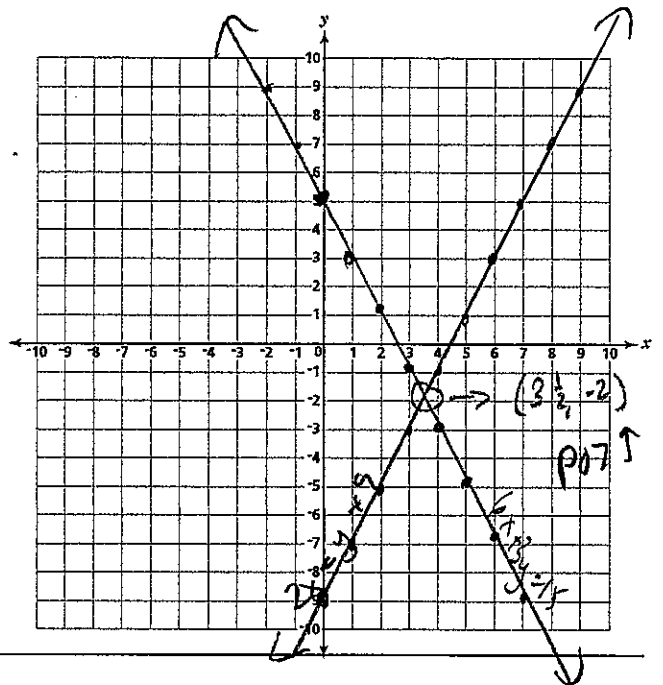
Check #2

$$6x + 3y = 15$$

$$6(3\frac{1}{2}) + 3(-2) = 15$$

$$21 - 6 = 15$$

$$15 = 15$$



6) Graph the following lines:

$$y = x$$

$$y = -x$$

$$y = 3$$

$$y = x$$

$$m = 1 \uparrow$$

$$b = 0$$

$$y = -x$$

$$m = -1 \downarrow$$

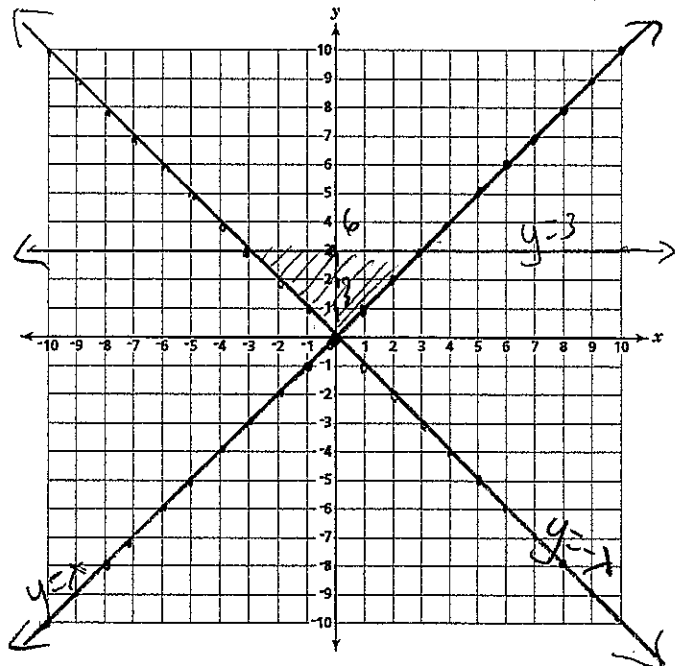
$$b = 0$$

$$y = 3$$

$$m = \text{zero}$$

$$b = 3$$

↔



(a) Name the figure formed: Triangle

(b) Find the area of the figure: 9

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(6)(3)$$

$$A = 9$$