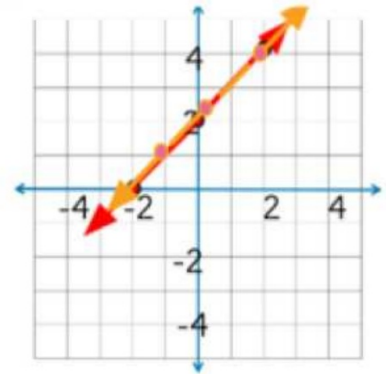
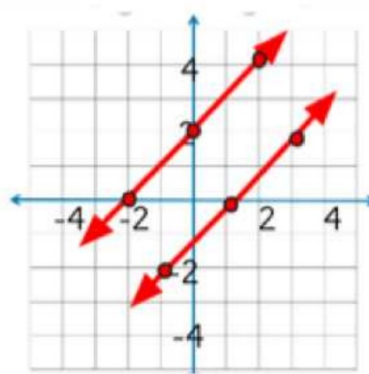
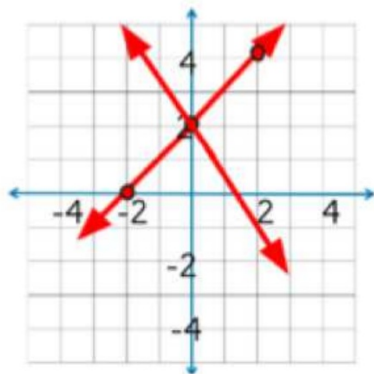


2x2 Systems of Equations & Inequalities



*See printout.

HW:

2x2 systems wkst

1 - 21 odd

Spiral #4 (turn in Tuesday for a bonus point)

(turn in Thursday - no bonus point)

ex: Solve the system graphically.

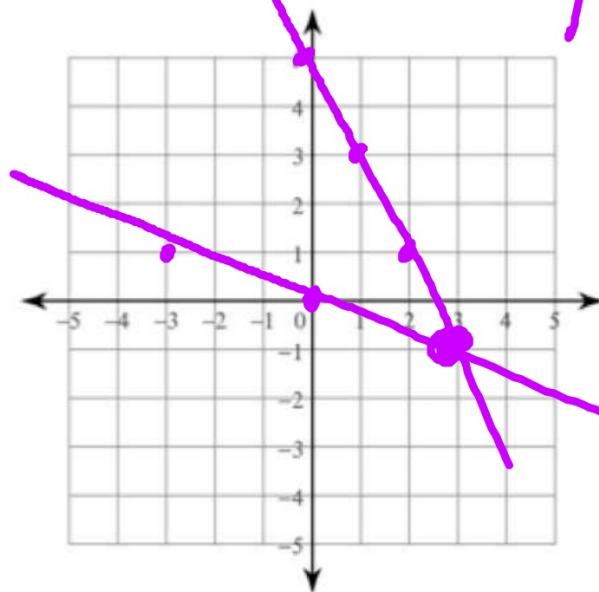
a)

$$x + 3y = 0$$

$$2x + y = 5$$

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

$$y = -2x + 5$$



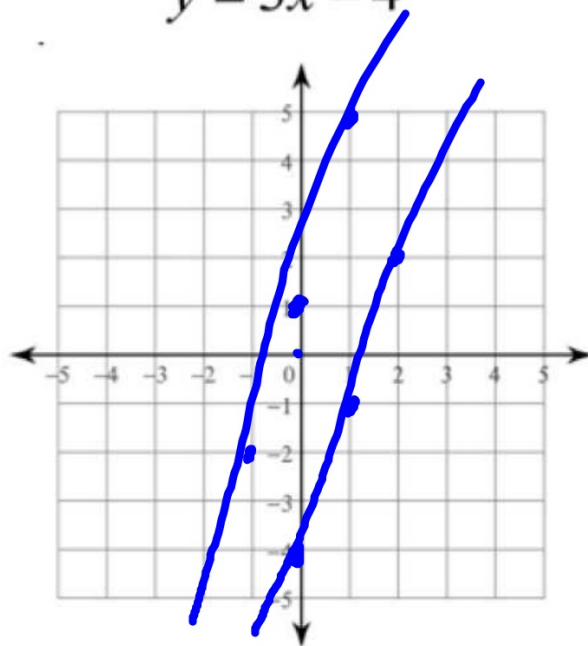
$$(3, -1)$$

ex: Solve the system graphically.

b)

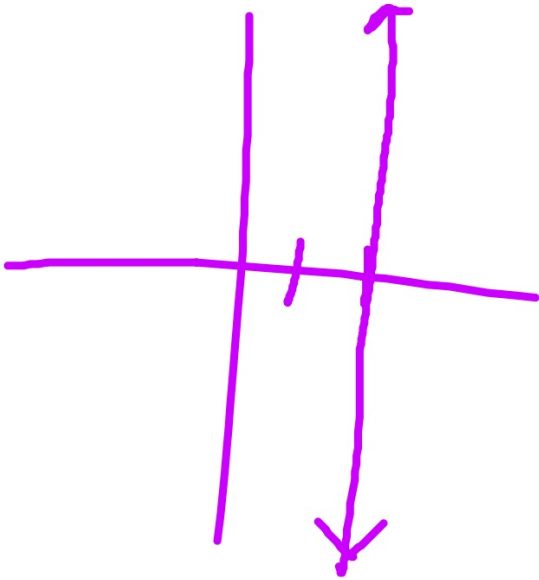
$$y = 3x + 1$$

$$y = 3x - 4$$

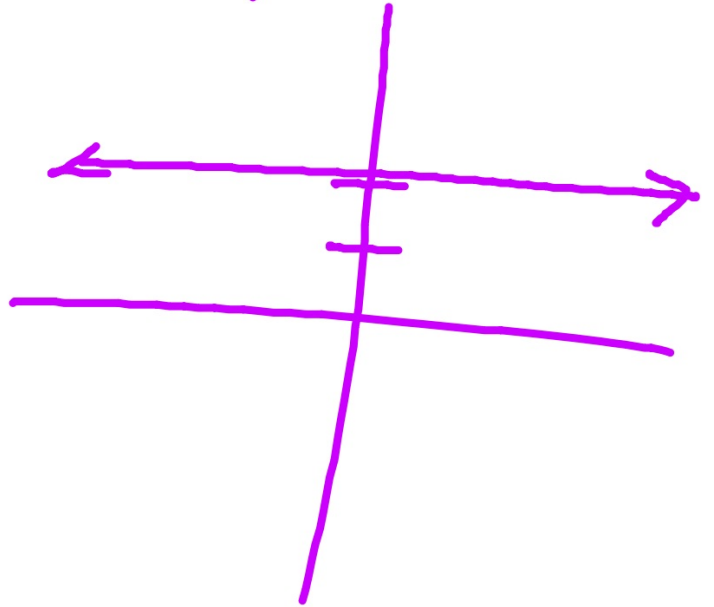


NO
SOLUTION

$$x = 2$$



$$y = 2$$



ex: Solve the system algebraically by substitution.

$$x = -3y$$

$$x + 3y = 0$$

$$2x + y = 5$$

$$2(-3y) + y = 5$$

$$-6y + y = 5$$

$$-5y = 5$$

$$y = -1$$

$$x + 3(-1) = 0$$

$$x = 3$$

$$\boxed{(3, -1)}$$

ex: Solve the system algebraically by elimination.

$$-2(x+3y=0)$$

$$2x+y=5$$

$$+ \quad -2x-6y=0$$

$$-5y=5$$

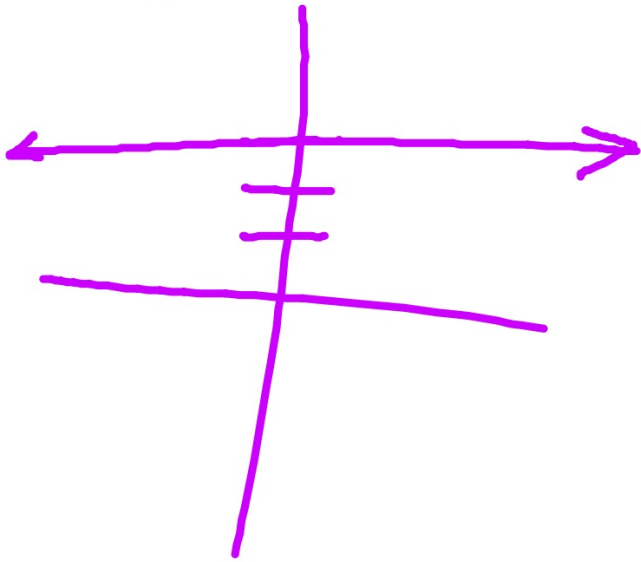
$$x+3(-1)=0$$

$$x=3$$

$$y=-1$$

$$(3, -1)$$

$$y = 3$$



$$x = 3$$

