

As an inventor, Thomas Edison made 1,000 unsuccessful attempts at inventing the light bulb.

*~Mistakes on homework CAN be fixed,
mistakes on tests can't.*

**** Use your homework to practice, mistakes are key to learning and understanding**

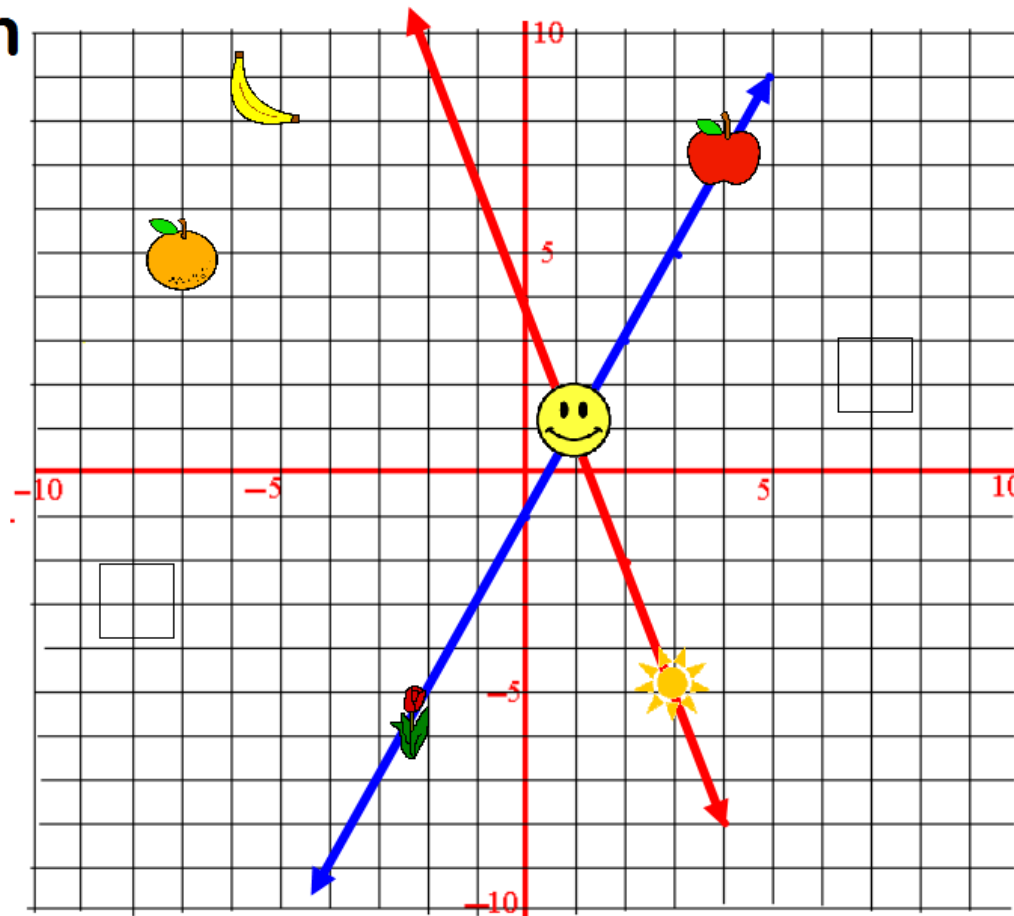
CH.3: SYSTEMS OF EQUATIONS

Line A
 $y = 2x - 1$

Line B
 $y = -3x + 4$

Is 🍌 a solution
 to Line B ?

Is _____ a solution
 to Line _____ ?



How many long sleeve shirts do you have?

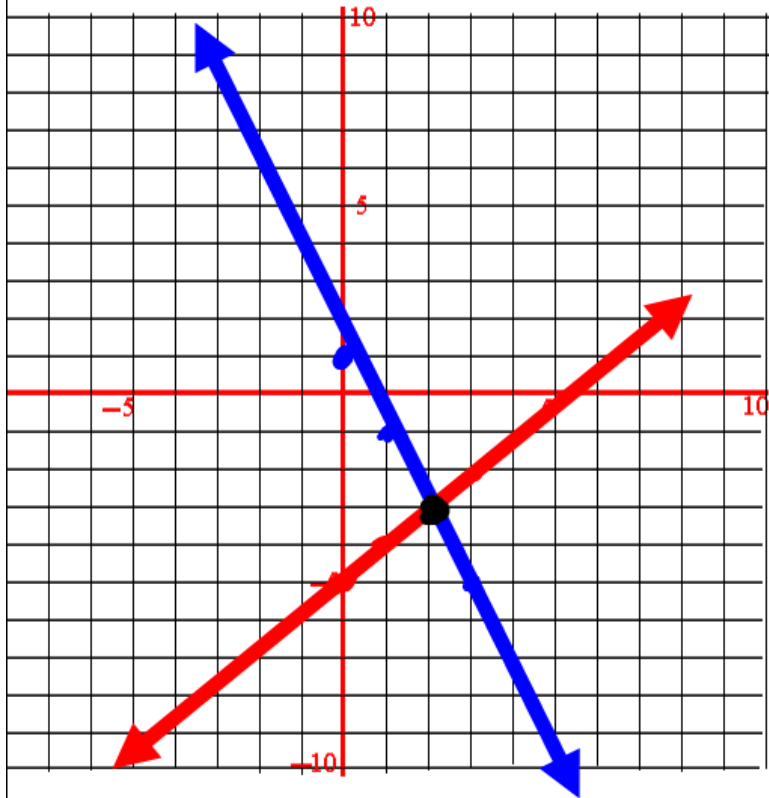
How many red shirts do you have?



$\frac{x}{y}$

$$y = -2x + 1$$

$$y = x - 5$$



$(2, -3)$

How many solutions does $3x + 2y = -4$ have?

How many solutions does $x + 3y = 1$ have?

Does a system of equations always have 1 solution?

Solve by Graphing

Systems of equations:

$$Ax + By = C$$

$$Dx + Ey = F$$

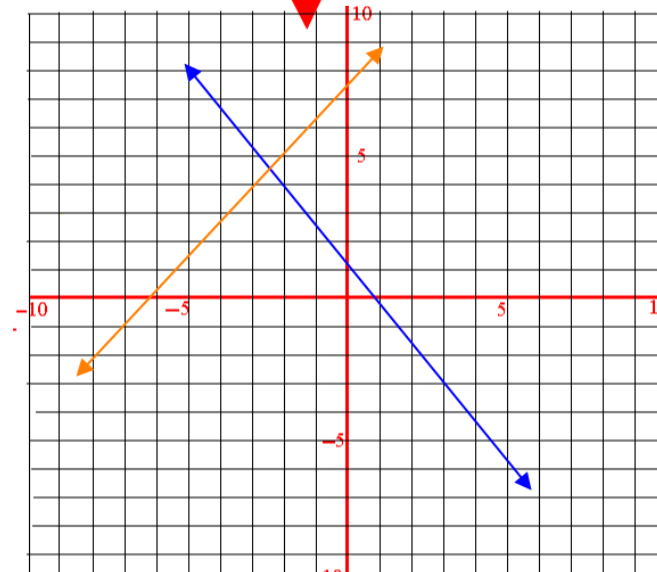
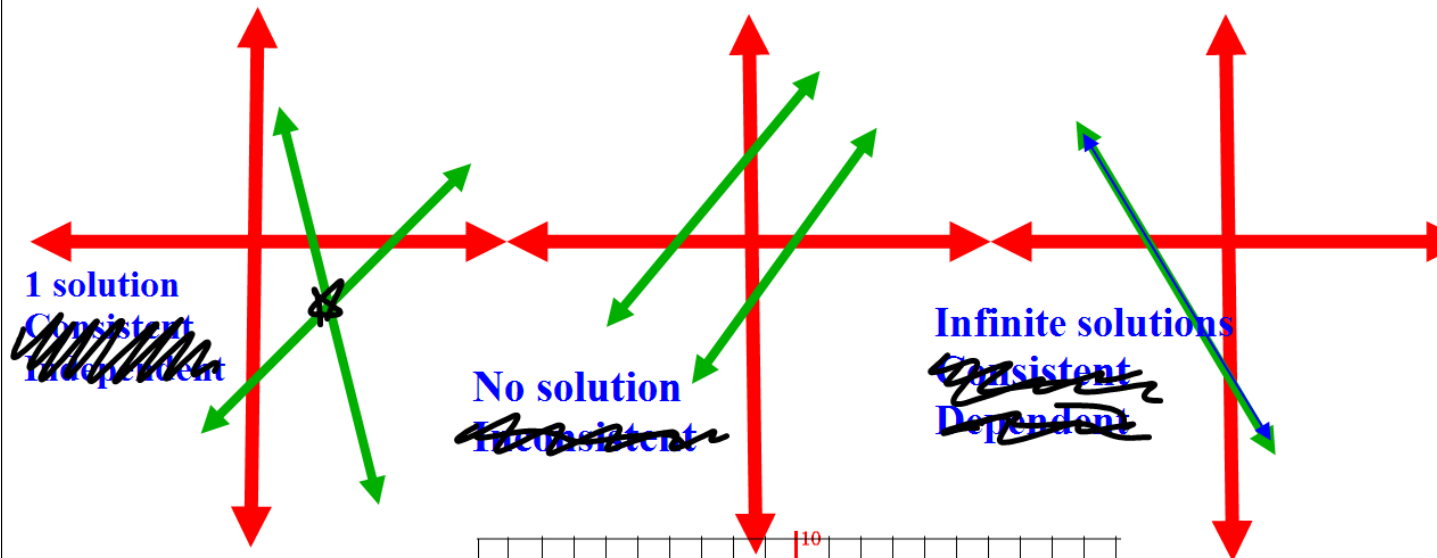
$$y = mx + b \leftrightarrow$$

$$y = \#$$

$$x = \# \downarrow$$

Solution:

An ordered pair (x,y) that is a solution in both equations



$$\begin{cases} 5x - 3y = -4 \\ x + 2y = 7 \end{cases}$$

Is (1, 3) a solution?

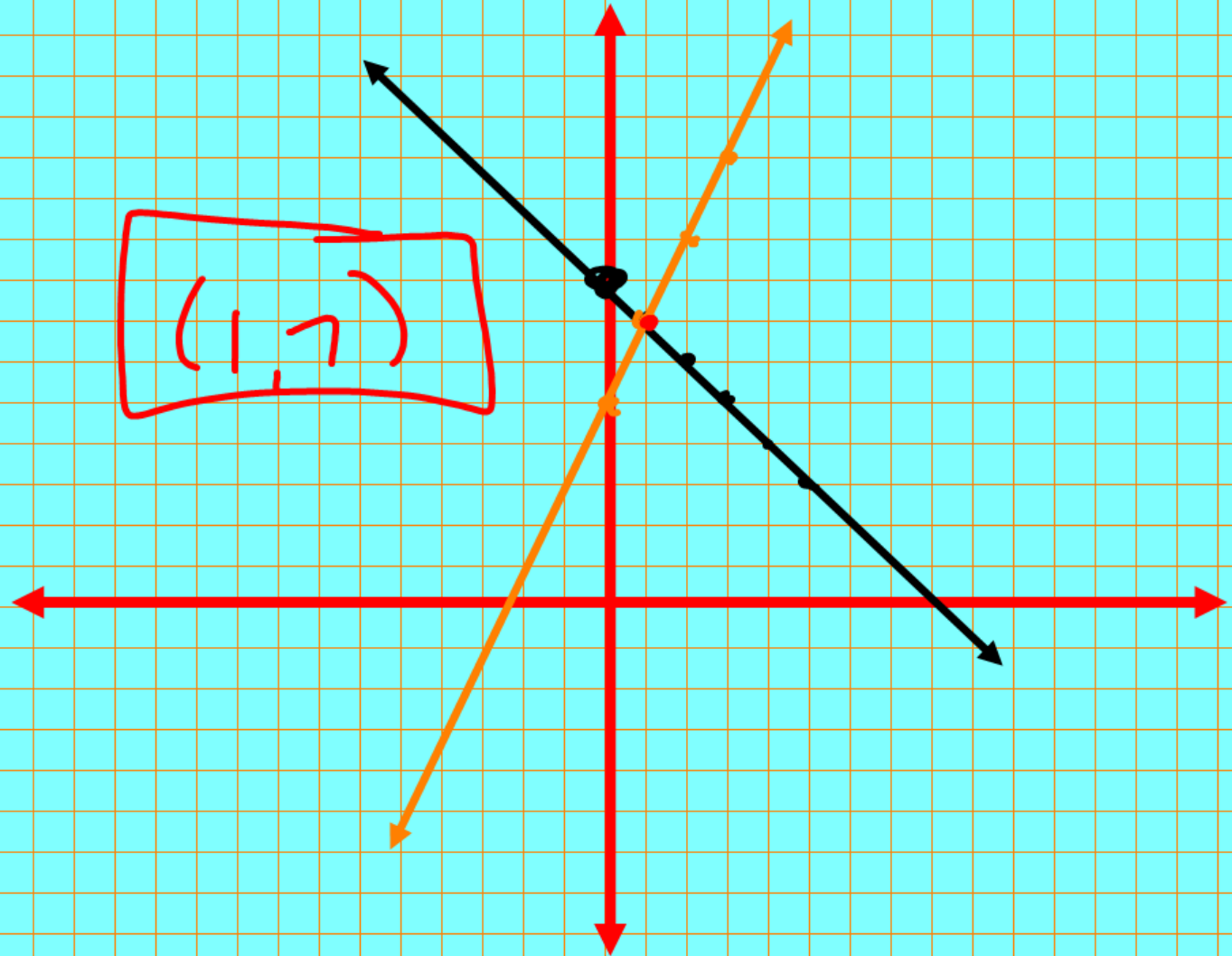
Find the solution. Graph. Check.

$$\begin{cases} x + y = 8 \\ -2x + y = 5 \end{cases}$$

$$y = 2x + 5$$

$$y = -x + 8$$

$(1, 7)$



Math Practice: Graph WS

1) $y = -3 + \frac{7}{3}x$

$$-6 = -3y + 2x$$

