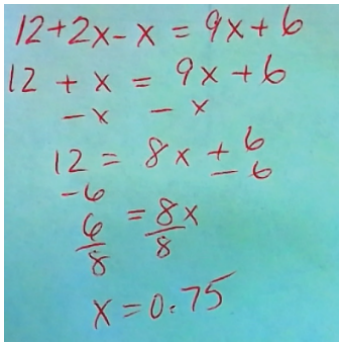
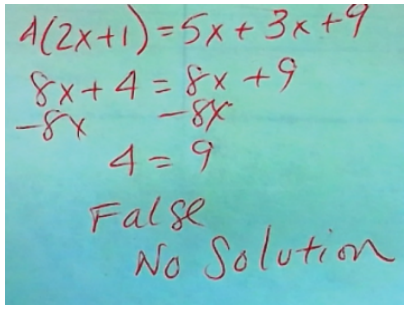
Warm-Up: Solve the Equations (Look back in notes if needed)

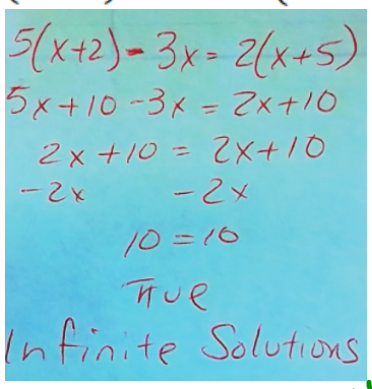
1. $12 + 2x - x = 9x + 6$



2. $4(2x + 1) = 5x + 3x + 9$



3. $5(x + 2) - 3x = 2(x + 5)$



HW) $3x + 2y > -2$

$-3x \quad -3x$

$\frac{2}{2}y > \frac{-3}{2}x - \frac{2}{2}$

$y > \frac{-3}{2}x - 1$

$x + 2y > 2$

$-1x \quad -1x$

$\frac{2}{2}y > \frac{-1}{2}x + \frac{2}{2}$

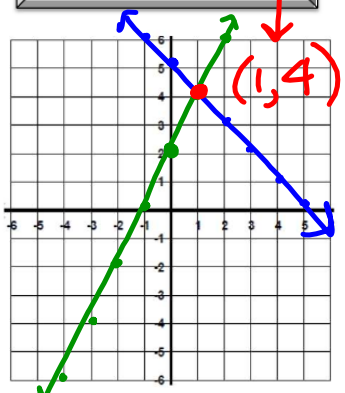
$y > \frac{-1}{2}x + 1$

$y = mx + b$

SOLUTIONS TO SYSTEMS OF EQUATIONS

Graph each system. Then solve each one mathematically. In the box above each graph, identify how many solutions each system has.

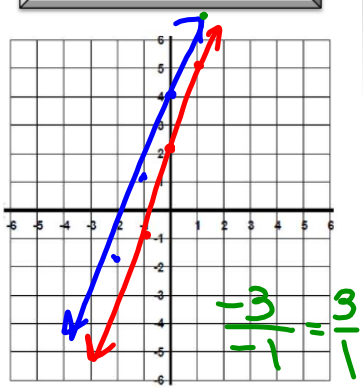
ONE SOLUTION



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

down1, right1

No Solution

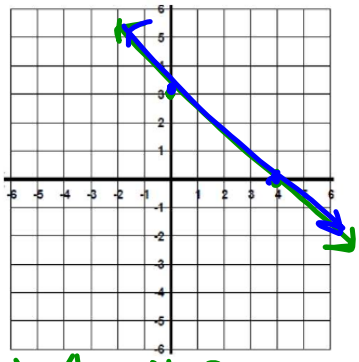


$$\begin{cases} y = 3x + 4 \\ 2y = 6x + 4 \end{cases}$$

÷2 ÷2 ÷2

$y = 3x + 2$

Infinite Solutions



x=4 y=3

$$\begin{cases} 3x + 4y = 12 \\ 15x + 20y = 60 \end{cases}$$

x=4 y=3

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