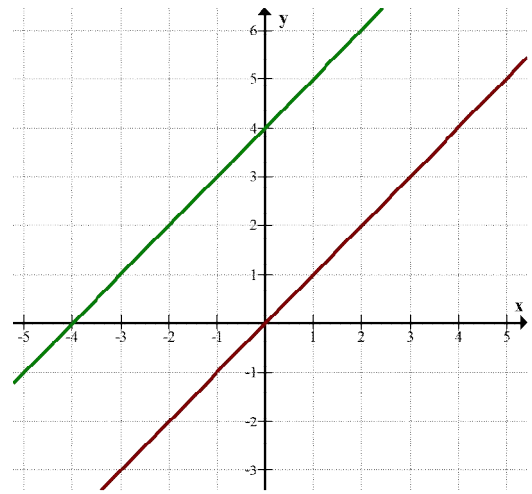
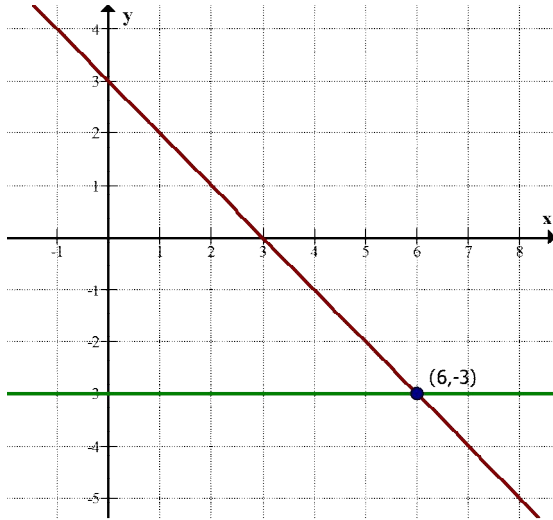


## M10 - 8.1 - Number of Solutions Systems WS

How many solutions do the following graphs have.



Find the number of solutions of the following equations.

$$\begin{aligned}y &= 2x - 3 \\ y &= x + 4\end{aligned}$$

$$\begin{aligned}y &= 3x - 8 \\ y &= 3x + 2\end{aligned}$$

$$\begin{aligned}y &= x + 1 \\ y &= x + 1\end{aligned}$$

$$\begin{aligned}2x - y - 3 &= 0 \\ x - y + 4 &= 0\end{aligned}$$

$$\begin{aligned}6x - 2y &= 16 \\ 6x - 2y + 4 &= 0\end{aligned}$$

$$\begin{aligned}6x + 2y - 6 &= 0 \\ y &= -3x + 3\end{aligned}$$

In words, describe the graphs of two lines with the following outcomes.

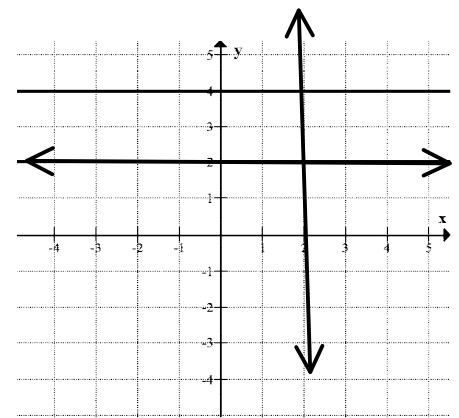
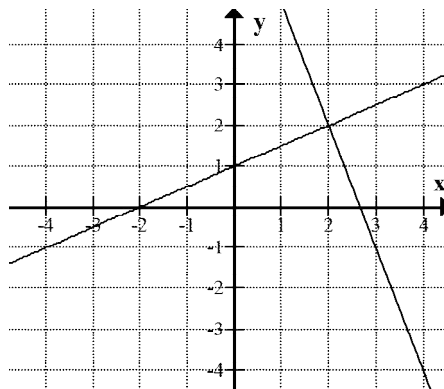
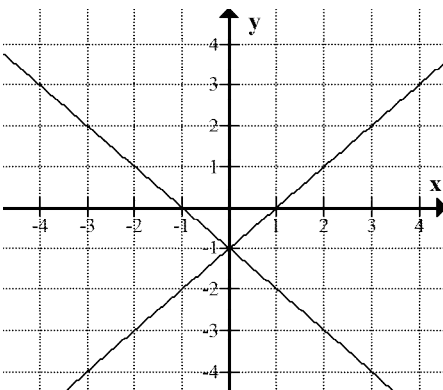
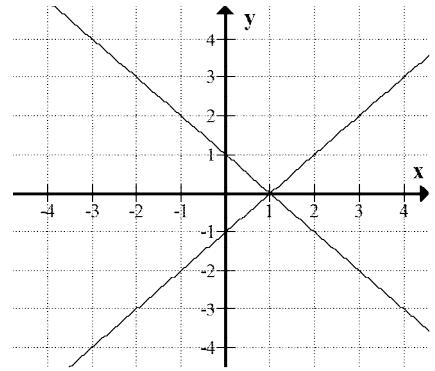
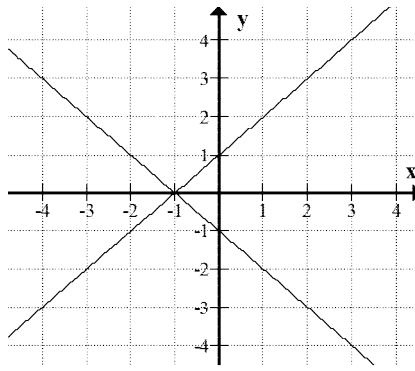
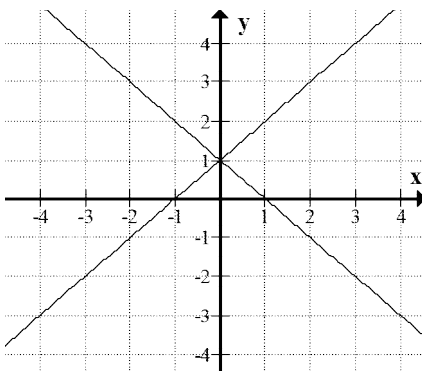
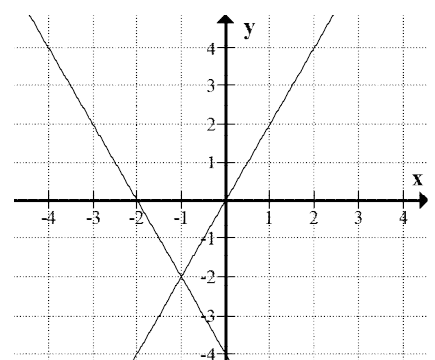
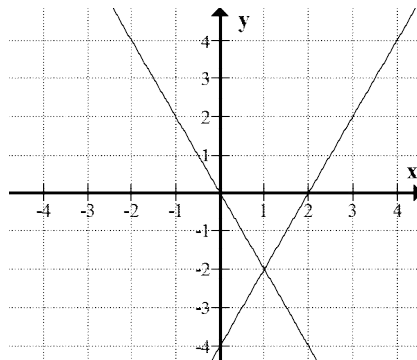
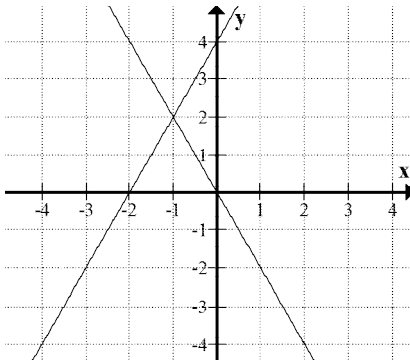
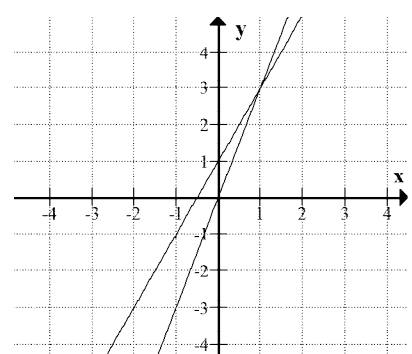
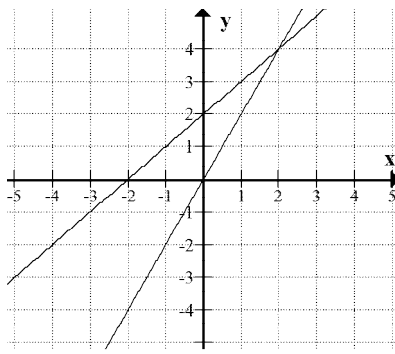
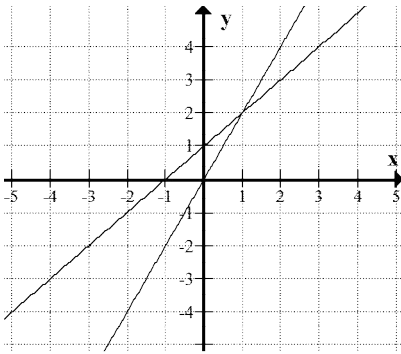
Infinite number of solutions

No solution

One solution

# M10 - 8.2 - Graph: Find Intersection WS

Write the intersection point of the following graphs.

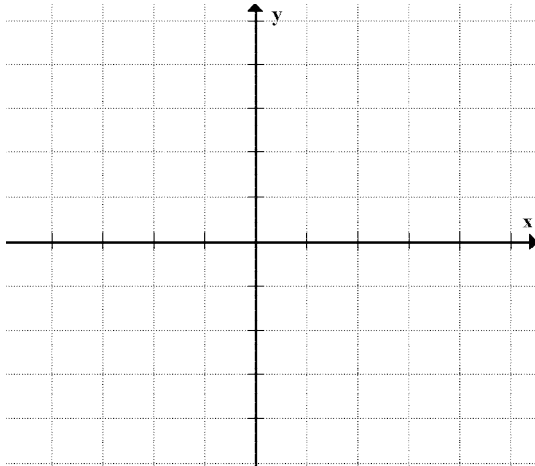


# M10 - 8.2 - Solving Graphically WS

Solve for the intersection point by drawing the graphs.

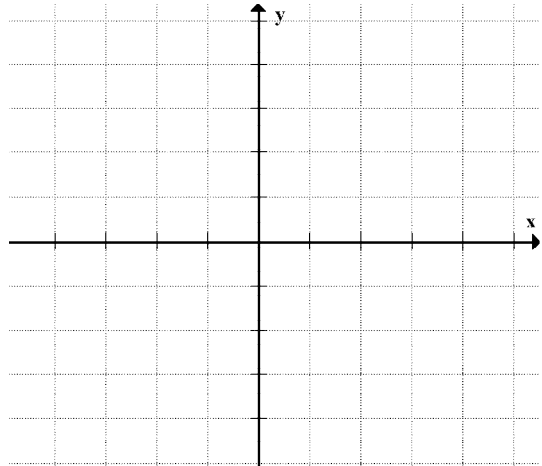
$$y = 2x - 1$$

$$y = x$$



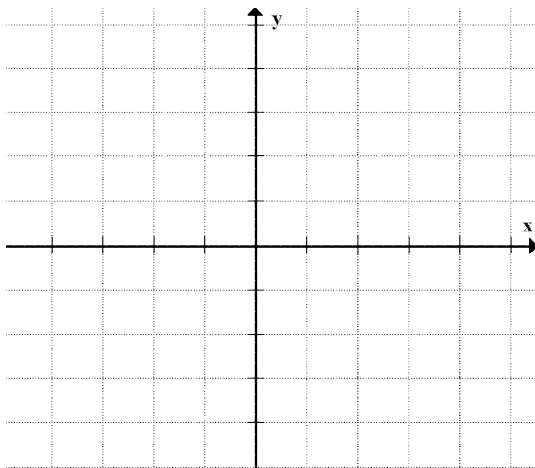
$$y = 3x$$

$$y = x$$



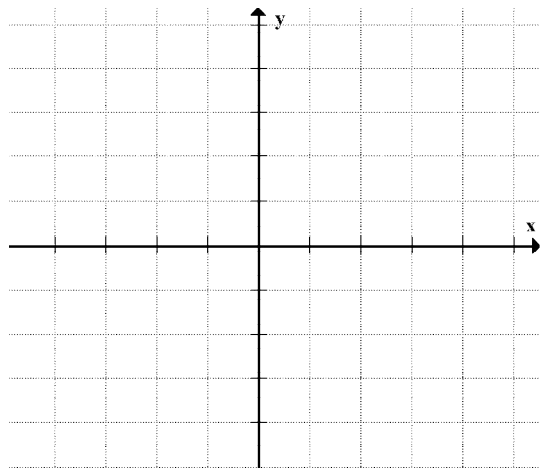
$$y = \frac{1}{2}x + 1$$

$$y = x - 1$$



$$y = x + 1$$

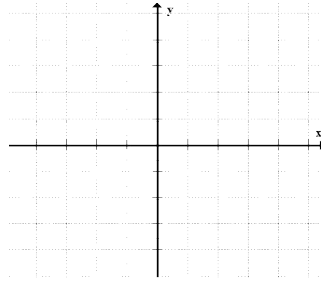
$$y = -2x + 4$$



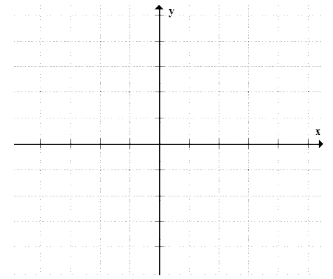
## M10 - 8.3 - Algebra Solving Systems of Equations WS

*Is (2,3) a point on the line?*

$$y = x + 1$$



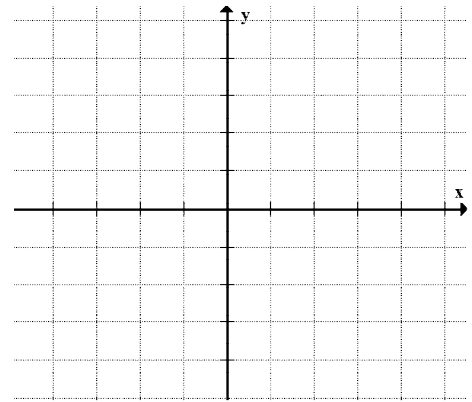
$$y = -2x + 4$$



*Is (-2,1) the intersection of the following pairs of lines?*

$$y = x + 3$$

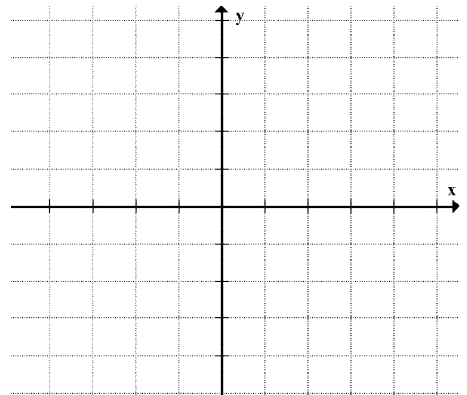
$$y = -3x - 5$$



*Is (3,-2) the intersection of the following pairs of lines?*

$$y = x - 5$$

$$y = 2x - 6$$



*Is (5,-1) the intersection of the following pairs of lines?*

$$y = \frac{1}{2}x + 1$$

$$y = -3x + 2$$

