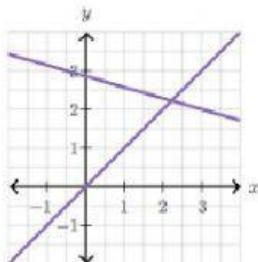# Systems of Equations

A _____ of equations is _____ or more equations
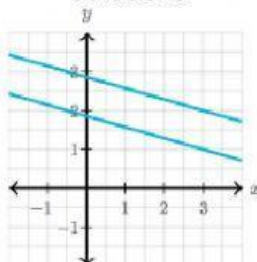
One Solution:
Intersects at one _____ that makes all equations true
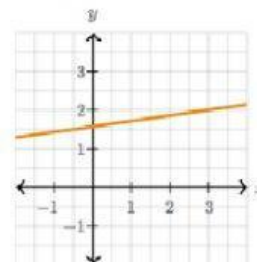

Infinite Solutions:
Equations are the same. All _____ on the line are solutions

No Solution:
Equations are _____ There is no solution

Solving Systems of Equations by Graphing

Steps:
1. Solve each equation for ____ (if necessary)
2. _____ both equations on the same graph
3. The intersection of the lines is the _____ to the system
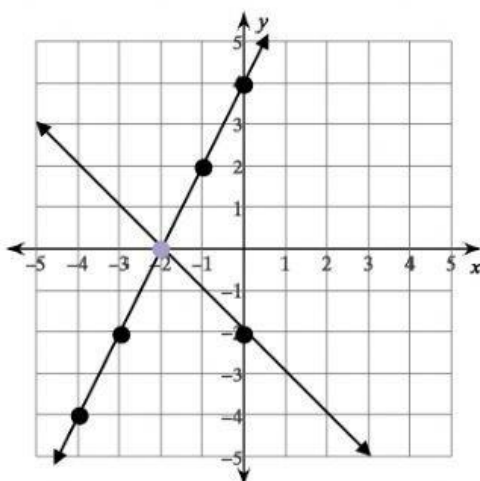4. Write your answer as an _____ _____

Solving for y reminder:
1. Move the x term to the other side
2. Divide both sides by the coefficient of y

EXAMPLES

$y = 2x + 4$ $y = -4x - 2$
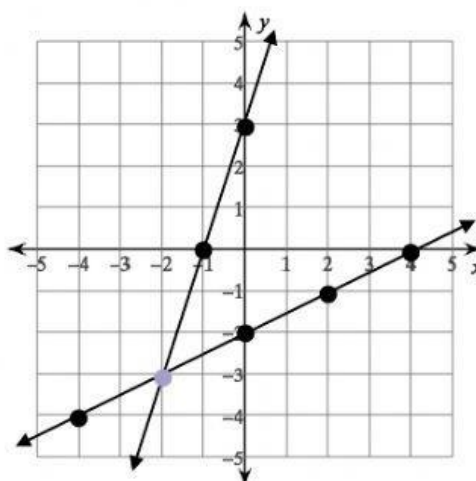

Solution:

$y = \frac{1}{2}x - 2$ $-3x + y = 3$

$y = $ _____

Solution: