

Day 3: Solving Systems of Equations by Graphing

Date _____

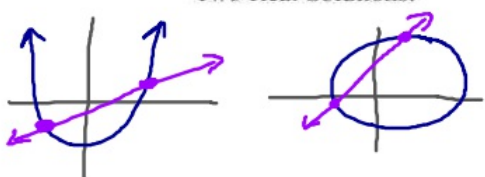
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1) A System of Equations is a set of equations with the same Variables or unknown.

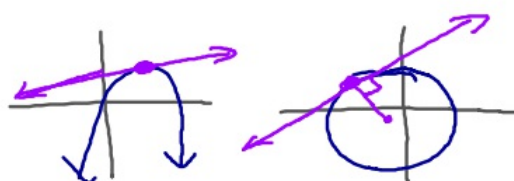
The solution(s) to a system of equations are the points of intersect and are to be written as ordered Coordinate pairs.

A system of equations can have:

Two Real Solutions:



One Real Solution:



No Real Solutions:

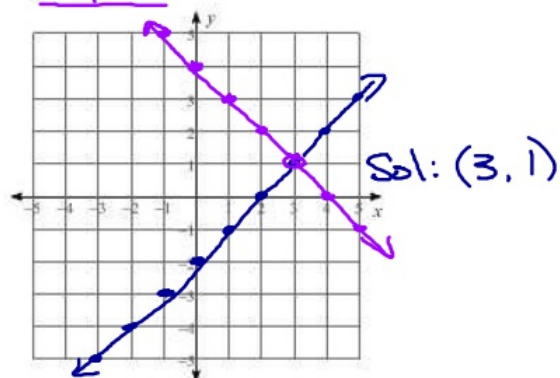


2) To Solve a System of Equations by Graphing:

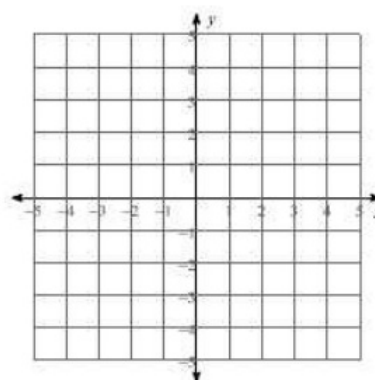
- Graph each equation
- Find the points of intersection (where they cross)
- Write your solution as an ordered pair.

Solve each system by graphing.

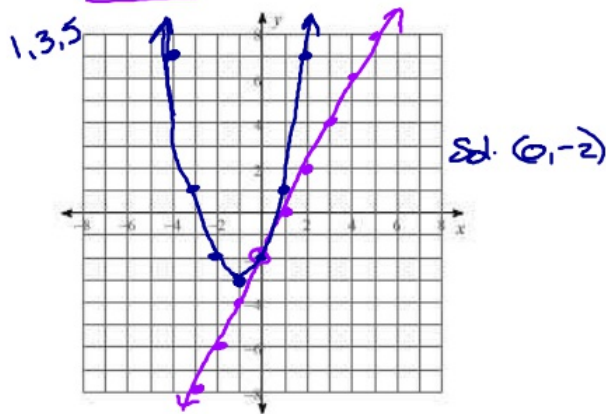
3) $y = x - 2$
 $y = -x + 4$



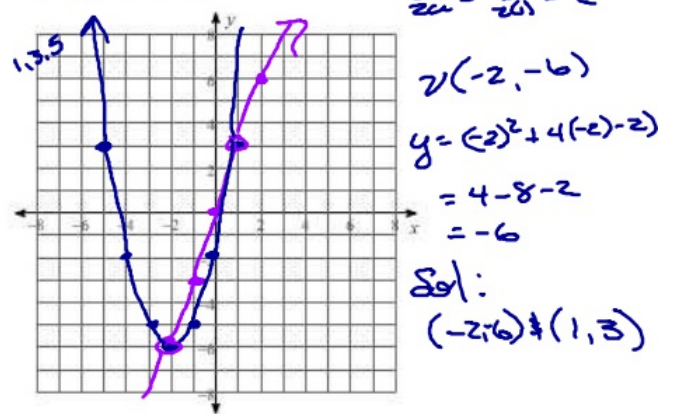
4) $y = -2x + 4$
 $y = -\frac{1}{2}x - 2$



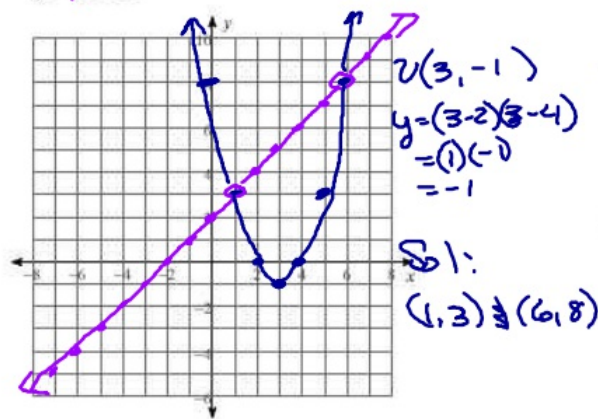
5) $y = (x+1)^2 - 3$
 $y = 2x - 2$ $V(-1, -3)$



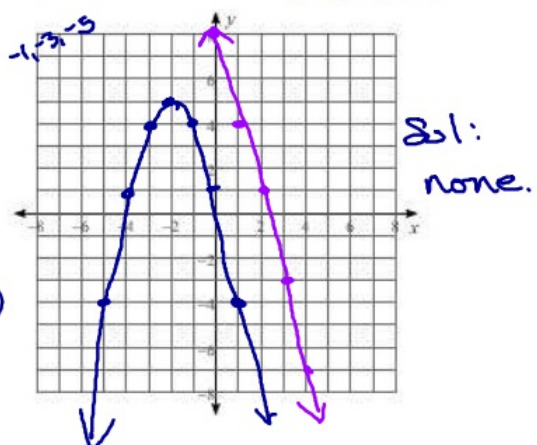
6) $y = 3x + 0$
 $y = x^2 + 4x - 2$



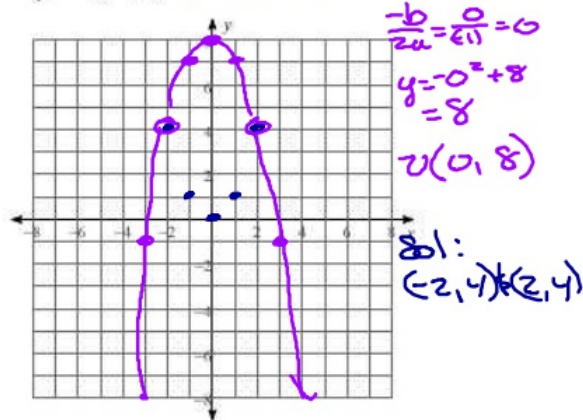
7) $y = (x-2)(x-4)$ $cos: 3$
 $y = x + 2$



8) $y = -4x + 8$
 $y = -(x+2)^2 + 5$ $V(-2, 5)$



9) $y = x^2 + 0x + 0$ $\frac{-b}{2a} = \frac{0}{2(1)} = 0$
 $y = -x^2 + 8 = -x^2 + 0x + 8$



10) $y = 4 - x$ $= -x + 4$
 $x^2 + y^2 = 16$
 $(x-0)^2 + (y-0)^2 = 16$

