

Date: _____

Unit 6: Solving Systems of Linear Equations**6.1 Solving by Graphing & Number of Solutions**

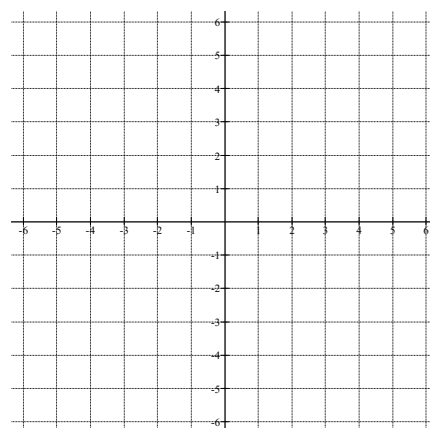
Recall: To **SOLVE** an equation means to identify the value of the variable which satisfies the equation (makes the equation true).

Ex. Solve $2x - 1 = 9$

System of Linear Equations:

- Two or more linear equations involving common variables
- The number of equations must equal the number of variables to guarantee a solution

Ex. Solve the system graphically: $y = 2x$ and $y = x + 2$

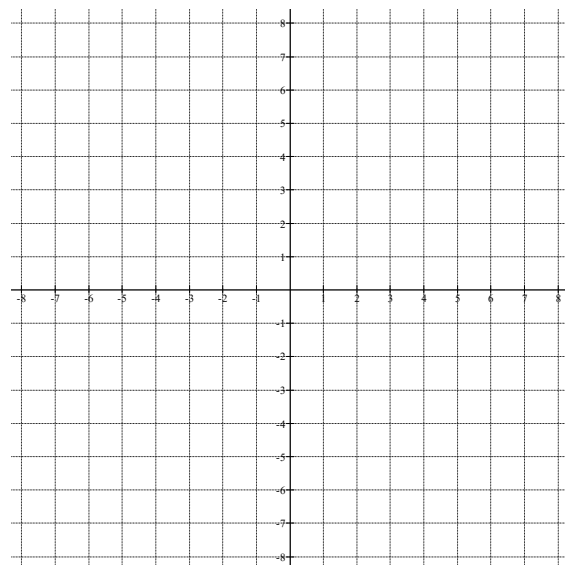
**Algebraic Verification**

Solution (to a system of linear equations):

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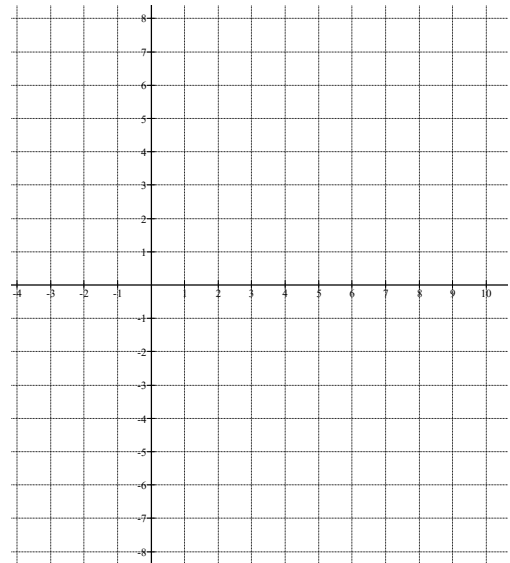
Ex. Given the system of linear equations $2x + y = 2$ and $x - y = 7$, identify the solution of the system by graphing, then verify the solution.



Ex. Solve the system by graphing:

$$4x + 10y = 30$$

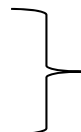
$$2x + 5y = 35$$



	Intersecting Lines	Parallel Lines	Coincident Lines
Number of Solutions			
Graph			
Slopes:			
y-intercepts:			

Practice:

Worksheet (complete 1st)
pg. 427/ # 5abc, 19
pg. 454/ # 1 – 3, 12



Handed in ALL together