Name

Date	

Solving Systems of Two Equations

Determine if the given points are solutions to each given system. (Substitute the values to make sure they satisfy both equations)

1)
$$y = 2x + 3$$
 (2,3)
 $y = 3x + 1$
2) $y = -2x + 2$ (2,-2)
 $y = 3x - 8$

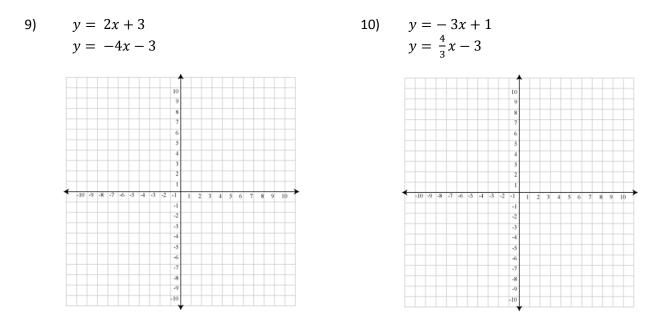
Determine if the following systems of equations have zero, one, or infinite solutions.

3)
$$y = \frac{2}{3}x + 5$$

 $y = \frac{2}{3}x - 4$
5) $y = 4x + 5$
 $3y = 12x + 15$
7) $y = -x + 5$
4) $y = -\frac{3}{4}x + 5$
 $y = \frac{3}{4}x - 2$
6) $y = \frac{2}{5}x - 2$
 $y = \frac{5}{2}x + 2$
8) $2y = 4x + 6$

$$y = 2x + 5$$
 $y = 2x - 3$

Solve the following systems by graphing. (Round your answers to the nearest integer)



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Solve each system of equations by substitution

11)
$$y = 2x + 1$$

 $2x + y = 13$
12) $y = x + 7$
 $y = -2x - 2$

13)
$$y = 3x - 4$$

 $y = -1x$
14) $y = 2x + 1$
 $3x - y = 1$

Solve each system of equations by elimination

15)
$$x + 2y = 6$$

 $-x + y = -3$
16) $2x + y = 4$
 $x + 3y = -3$

17)
$$x + 2y = 1$$

 $x - 3y = -4$
17) $3x + 2y = -2$
 $x + 3y = 4$

Challenge on Back

Challenge 1:

Solve the following system of equations by elimination (Hint: you will need to multiply both equations by two different numbers.

2x + 3y = 11

3x + 2y = 9

Challenge 2:

Solve the following system of equations by any method.

y = 2x + 3

2x - y = 4

What do you think the result means?

Challenge 3:

Solve the following system of equations by any method.

y = 3x + 2

6x - 2y = -4

What do you think the result means?