

P.S. #5.3 - Systems of Equations by Substitution Day 2

Name: _____ Class: _____

Solve the following systems of equations by substitution.

1.) $2j + k = 3$
 $k = j - 9$

Check #1



2.) $3a - t = 5$
 $a + 2t = 4$

3.) $2x + y = 20$
 $3x + 4y = 40$

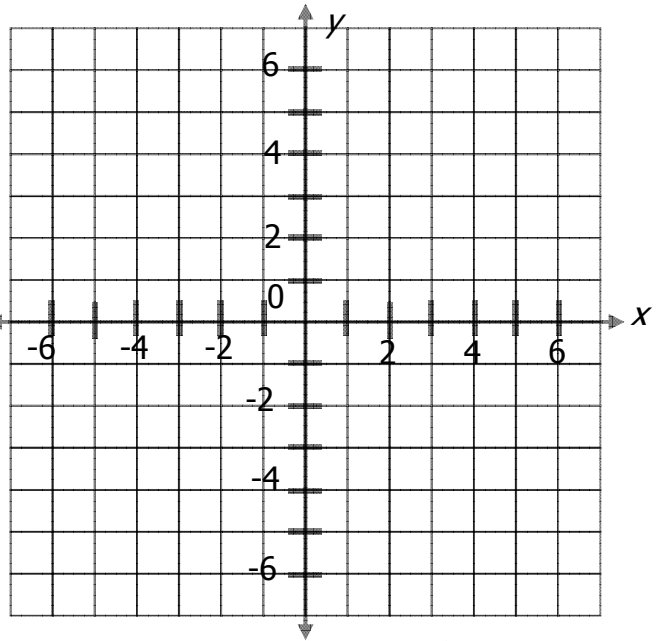
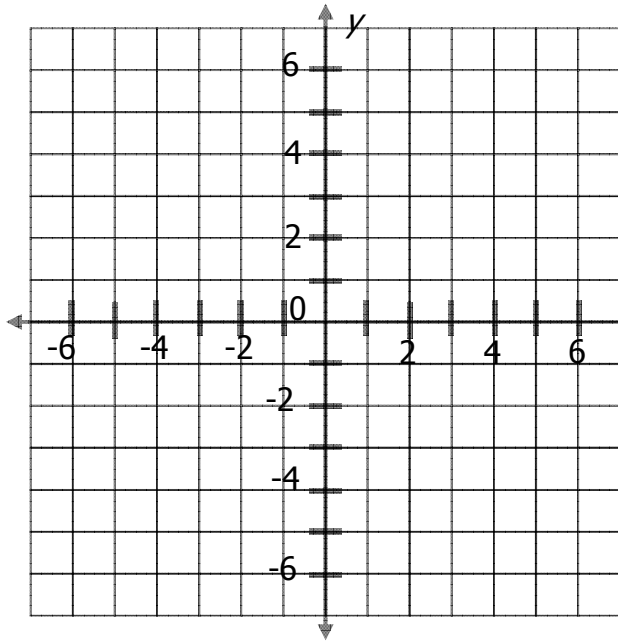
4.) $5x - y = 20$
 $4x + 3y = 16$

5.) $-3x - 4y = 2$
 $3x + 3y = -3$

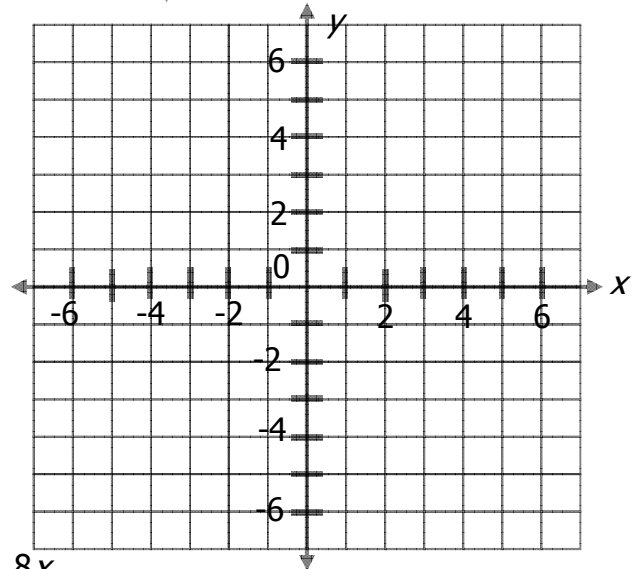
For 6 – 7, solve the following system of equations **graphically**.

6.) $2x + y = 7$
 $y - 3x = -3$ Solution: _____

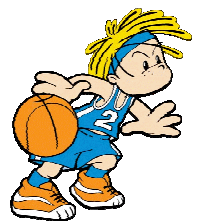
7.) $2x + y = 6$
 $y = 4$ Solution: _____



8.) Find the equation of a line that passes through the points (4,3) and (8,5). Graph it.



9.) Solve the equation: $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$



Answers:

- 1.) (4,-5) 2.) (2,1) 3.) (8,4) 4.) (4,0) 5.) (-2,1) 6.) (2,3) 7.) (1,4) 8.) $y = \frac{1}{2}x + 1$ 9.) $x = -5$