Name: _____ Period: _____

5.1 Solving Systems of Linear Equations (Graphing)

1) What does it mean to solve a system of linear equations?

2) You graph a system of linear equations, and the solution appears to be (3 , 4). How can you verify that the solution (3 , 4) is correct?

Show whether the given ordered pair is a solution of the system.

3) (5 , 3)

$2x - y = 7$

$x + y = 2$

4) (-1 , 4)

$4x + 3y = 8$

$3x + y = 0$

5) (2 , -2)

$9x = 10 - 4y$

$y = 3x - 8$

Match the system of linear equations with the corresponding graph. Use the graph to estimate the solution. Check your solution.

6) $y = 2.5x + 1$

$y = x$

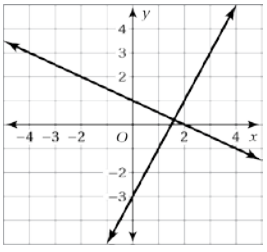
7) $y = 2x - 3$

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

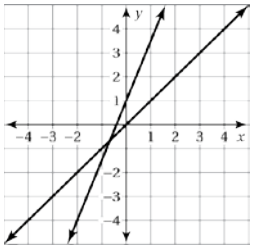
5) $y = \frac{1}{4}x - 2$

$y = -\frac{2}{5}x + 4$

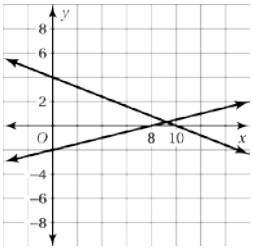
A)



B)



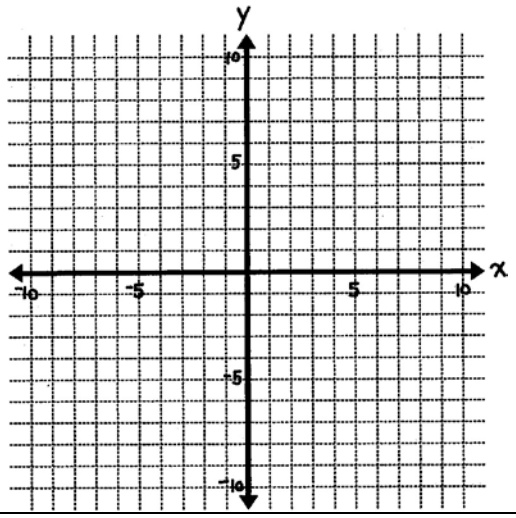
C)



Solve the system of linear equations by graphing.

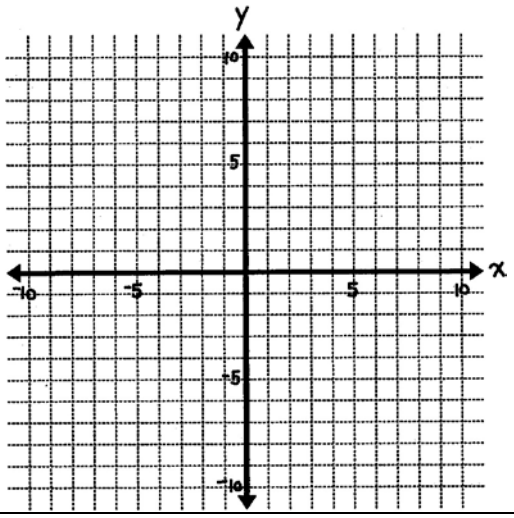
9) $y = 2$

$x = -3$



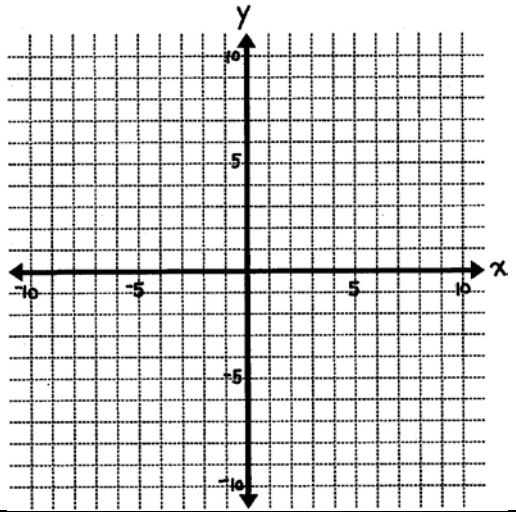
10) $y = 2$

$y = 6 - x$



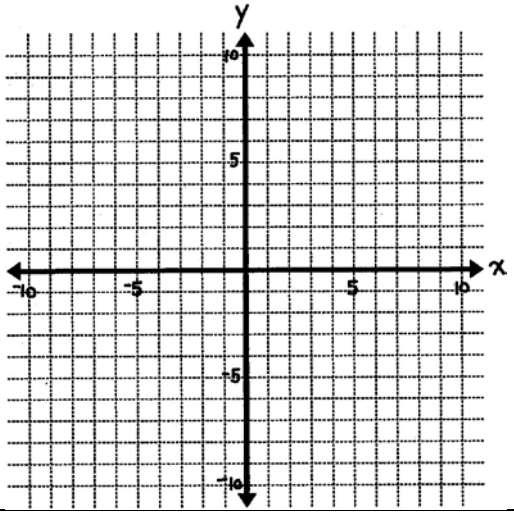
11) $y = x + 4$

$y = -x$



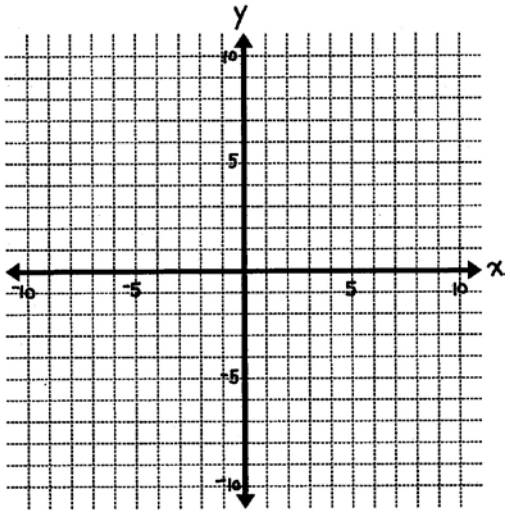
12) $y = x - 7$

$y = -4x + 3$



13) $y = -x + 2$

$y = 2x + 5$



14) $y = 2x - 5$

$y = x - 3$