

Practice on your own:
Graphing Systems of Linear Equations

Use the graph below to determine whether the system of linear equations has NONE, ONE, or INFINITE solutions.

① $y = -x + 2$
 $y = x + 1$

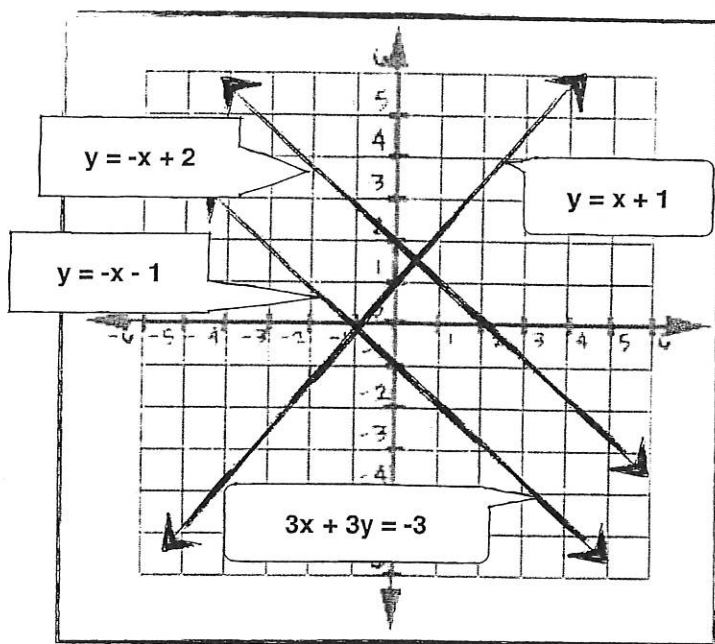
② $y = -x + 2$
 $3x + 3y = -3$

ANSWER:

ANSWER:

③ $3x + 3y = -3$
 $y = -x - 1$

ANSWER:

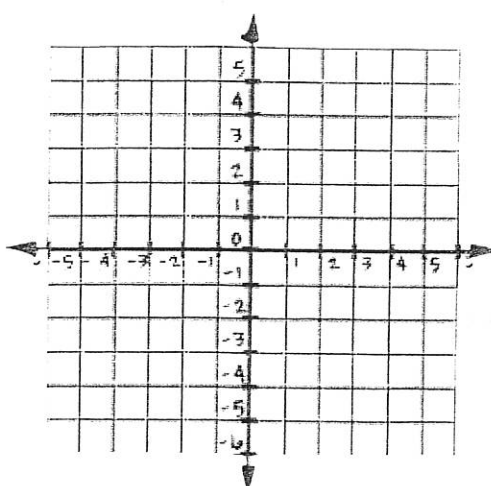
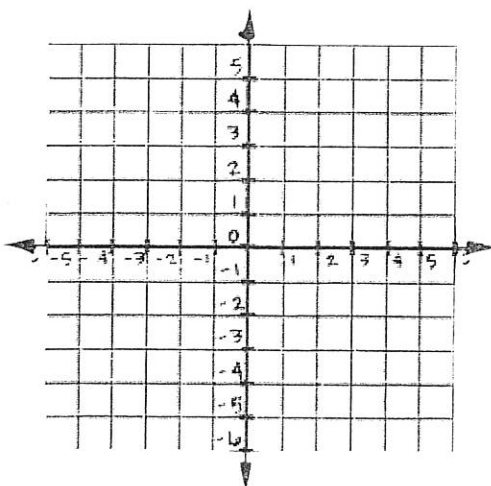
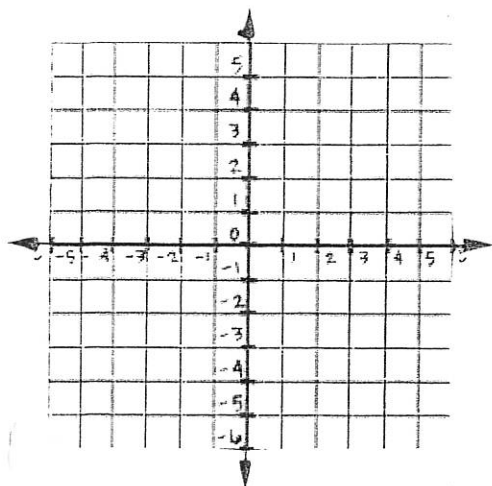


Graph the systems below, stating how many solutions the system has:

④ $y = 3x - 4$
 $y = -3x + 2$

⑤ $y = 1/3x + 3$
 $y = -2/3x - 3$

⑥ $y = 5/4x - 2$
 $y = 5/4x - 1$



ANSWER:

ANSWER:

ANSWER:

Solve the systems below using equations. State the number of solutions. If the system has one solution, find what that solution is. **REMEMBER:** Solve for y 1st, then set the equations equal and solve.

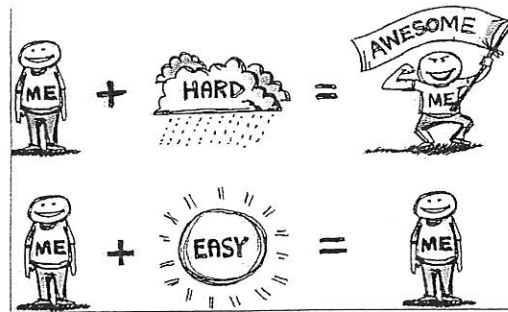
A. $y = -x - 6$
 $y - x = -4$ _____
 solution

B. $y = x + 2$
 $y = 3x - 2$ _____
 solution

C. $3x + y = 6$
 $y = -3x + 2$ _____
 solution

D. $y - 4x = -8$
 $y = 2x - 10$ _____
 solution

E. $-7x + y = -2$
 $7x - 2 = y$ _____
 solution



Write an example of a system of equations that has the following number of solutions.

F. ONE SOLUTION

G. INFINITELY MANY SOLUTIONS

H. NO SOLUTION

Circle the words that correctly finish each statement below.

I. Systems with ONE solution have...SAME or DIFFERENT slopes and SAME or DIFFERENT y-intercepts

J. Systems with INFINITELY MANY solutions have...SAME or DIFFERENT slopes and SAME or DIFFERENT y-intercepts

K. Systems with NO SOLUTIONS have...SAME or DIFFERENT slopes and SAME or DIFFERENT y-intercepts