

CA Algebra 1 Standard 9.0

MULTIPLE CHOICE

1. What is the solution to this system of equations?

$$\begin{cases} 2x - y = -7 \\ x + 3y = 7 \end{cases}$$

- A. $(-2, -3)$ C. $(-2, 3)$
B. $(2, -3)$ D. $(2, 3)$

2. For which of the systems is $(3, -2)$ a solution?

I. $\begin{cases} -2x - 2y = -2 \\ x + 3y = -3 \end{cases}$

II. $\begin{cases} 5x + 6y = 3 \\ -5x + y = -17 \end{cases}$

III. $\begin{cases} x - 2y = 7 \\ 3x + 3y = 15 \end{cases}$

- A. I only C. III only
B. I and III only D. I and II only

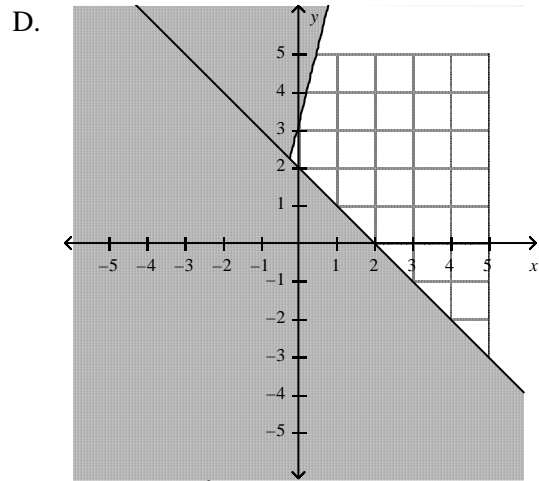
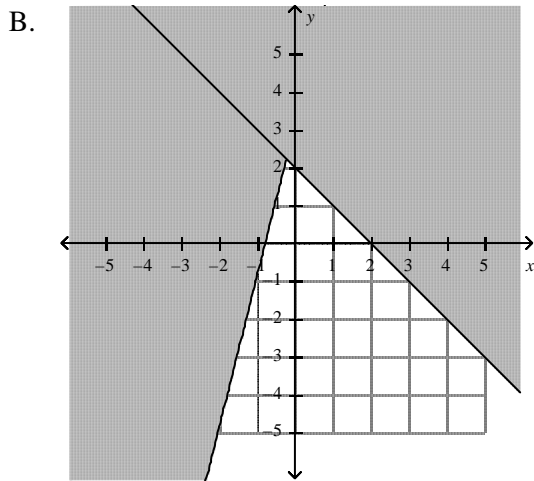
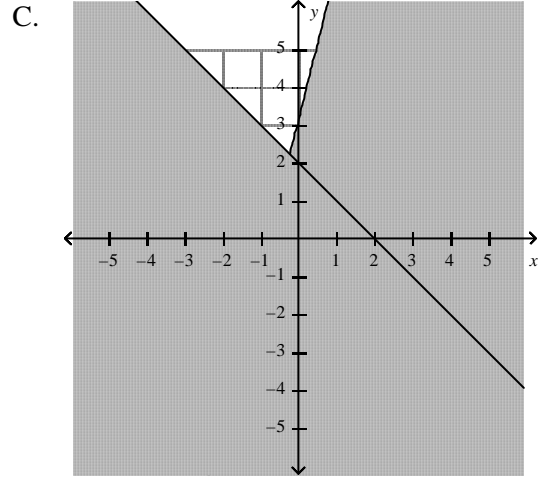
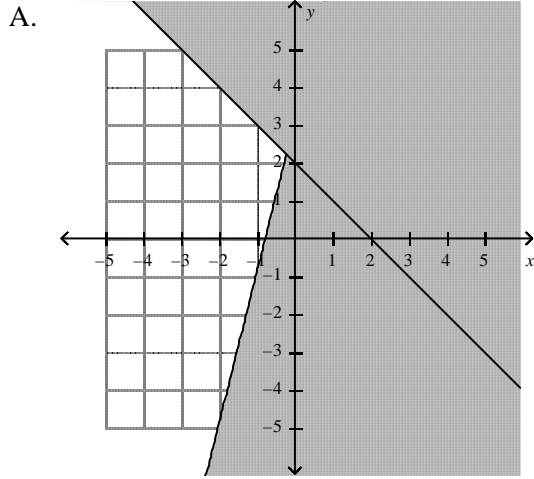
3. Which of the following describes this system of equations?

$$\begin{cases} 4x - y = 7 \\ 2x + 4y = -10 \end{cases}$$

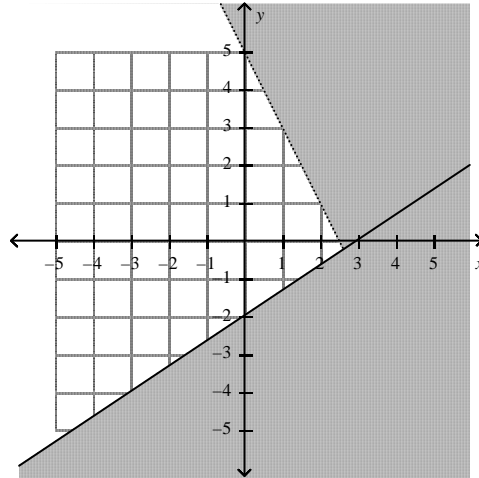
- A. infinitely many solutions
B. two solutions
C. one solution
D. no solutions

4. Which graph shows the solution to this system of inequalities?

$$\begin{cases} y \leq 4x + 3 \\ y \leq -x + 2 \end{cases}$$

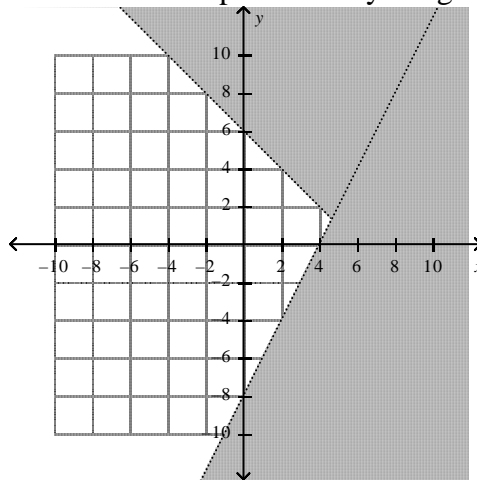


5. Which of the following ordered pairs is a solution to the system of inequalities shown in the graph below?



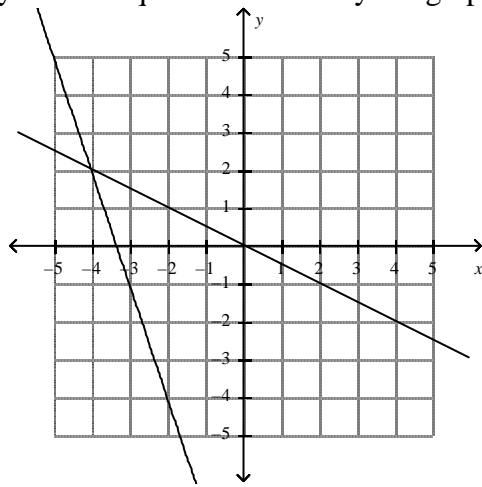
- A. $(-2, 0)$
 B. $(5, -1)$
 C. $(-1, -4)$
 D. $(0, 5)$

6. Which system of inequalities has solutions represented by the graph below?



- A. $\begin{cases} y < 2x - 4 \\ y > -x + 3 \end{cases}$
 B. $\begin{cases} y > -x + 6 \\ y > 2x - 8 \end{cases}$
 C. $\begin{cases} y > -x + 6 \\ y > -2x + 8 \end{cases}$
 D. $\begin{cases} y > -x + 6 \\ y > 2x - 8 \end{cases}$

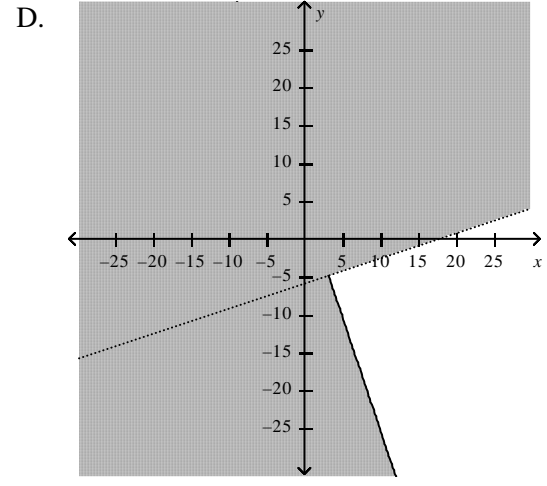
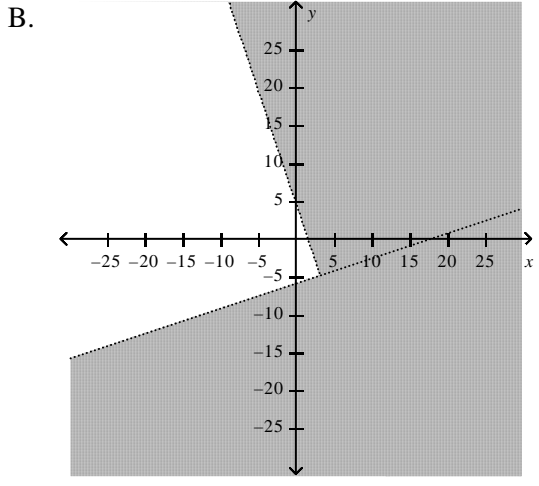
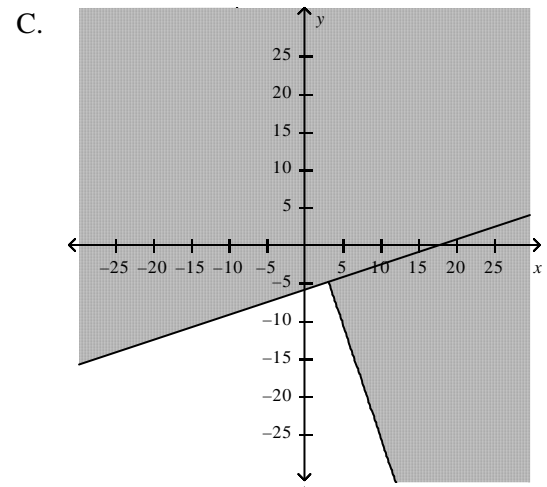
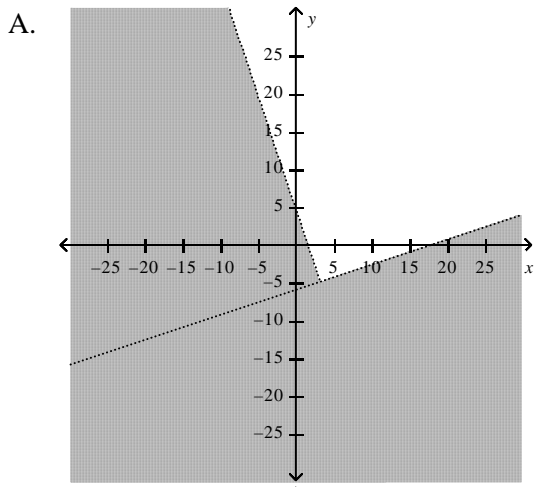
7. What is the solution to the system of equations shown by the graph below?



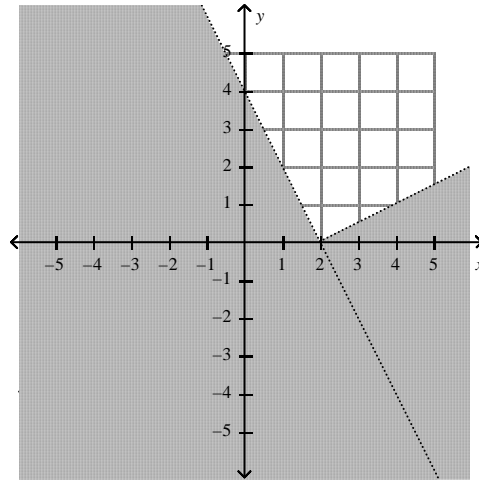
- A. $(-4, 2)$
- B. $(4, -2)$
- C. infinitely many solutions
- D. no solution

8. Which graph shows the solutions to this system of inequalities?

$$\begin{cases} 3y < x - 18 \\ 3x + y > 5 \end{cases}$$



9. Which of the following systems of inequalities has solutions represented by the graph shown below?



A.
$$\begin{cases} y < \frac{1}{2}x - 1 \\ y < -2x + 4 \end{cases}$$

B.
$$\begin{cases} y < \frac{1}{2}x - 1 \\ y > -2x + 4 \end{cases}$$

C.
$$\begin{cases} y > \frac{1}{2}x - 1 \\ y > -2x + 4 \end{cases}$$

D.
$$\begin{cases} y > \frac{1}{2}x - 1 \\ y < -2x + 4 \end{cases}$$

10. What is the solution to this system of equations?

$$\begin{cases} y = -3x + 11 \\ -5x = 2y - 19 \end{cases}$$

A. $(-3, 2)$
 B. $(3, 2)$

C. $(3, -2)$
 D. $(-3, -2)$