

Algebra I Semester 2 Practice Exam

1. What is the x -coordinate of the point of intersection for the two lines below?

$$\begin{aligned}x - 2y &= -2 \\ y &= -6x + 40\end{aligned}$$

- A. $-\frac{82}{13}$
B. $-\frac{42}{13}$
C. 6
D. 7

2. What is the y -coordinate of the point of intersection for the two lines below?

$$\begin{aligned}-6x + 7y &= 20 \\ 2x - 3y &= 4\end{aligned}$$

- A. -22
B. -16
C. 16
D. 22

3. How many solutions does the system of equations have?

$$\begin{aligned}x + y &= 4 \\ -4x - 2y &= -8\end{aligned}$$

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

4. How many solutions does the system of equations have?

$$\begin{aligned}-2x + 4y &= 1 \\ 3x - 6y &= 9\end{aligned}$$

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

5. Which ordered pair is in the solution set for the system of inequalities shown below?

$$\begin{aligned}2x - y &< 3 \\ x + 2y &> -1\end{aligned}$$

- A. $(-2, -1)$
B. $(0, 1)$
C. $(1, -2)$
D. $(6, 1)$