

Name:**Class:****Date:**Question #1**What is the x -coordinate of the point of intersection for the two lines below?**

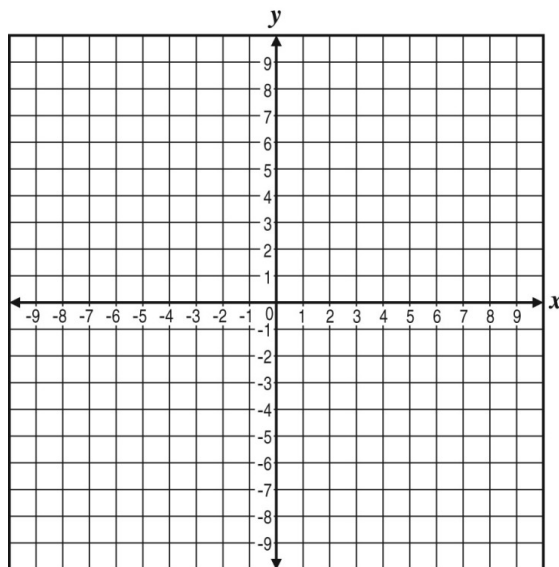
$$-6x + 8y = -6$$

$$7x - 10y = 9$$

A) -6 B) -3 C) 3 D) 7

Question #2**Which value of y makes the system of equations below true?**

$$\begin{cases} y = 2x - 5 \\ y = x - 2 \end{cases}$$



- A) 3
- B) 1
- C) -1
- D) -3

Question #3**If a solution to a linear system of equations is no solution, then what must be true about the graph of the system?**

- A The lines are perpendicular.
- B The lines are parallel.
- C The lines coincide.
- D The lines intersect only at one point.

Question #4

When graphed, which system will produce an inconsistent solution?

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

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

C
$$\begin{aligned} 8x + 4y &= 16 \\ 4x - 2y &= 6 \end{aligned}$$

D
$$\begin{aligned} -3x + 5y &= 6 \\ 6x - 10y &= 14 \end{aligned}$$

Question #5

What is the solution for this system of equations?

$$\begin{cases} -x + 2y = 10 \\ -3x + 6y = 11 \end{cases}$$

A $(-5, 2)$

B no solution

C $(5, -2)$

D infinite solutions

Question #6

A system of equations is shown.

$$\begin{cases} y = -x + 2 \\ y = \frac{1}{2}x - 4 \end{cases}$$

What is the solution to this system?

A (4, -2)

B (-2, 4)

C (4, 2)

D (2, 4)

Question #7

Study this system of equations.

$$\begin{cases} 3c + 2d = 9 \\ c + d = 4 \end{cases}$$

What is the solution to the system of equations in the box?

A (1, 3)

B (-3, -1)

C (3, 1)

D (-1, -3)

Question #8

For which system of linear equations is $(-4, 1)$ the solution?

A
$$\begin{aligned} 3x - 2y &= -10 \\ 3x + 5y &= -7 \end{aligned}$$

B
$$\begin{aligned} 3x + 2y &= -5 \\ 5xy &= 9 \end{aligned}$$

C
$$\begin{aligned} 2x - 7y &= -15 \\ 5x + 3y &= 23 \end{aligned}$$

D
$$\begin{aligned} 2x + 7y &= -1 \\ 3x - 5y &= -17 \end{aligned}$$

Question #9

What is the solution to this system of equations, $3x - 2y = 9$ and $x + 3y = -19$?

A $(-5, -12)$

B $(-1, -6)$

C $(2, -7)$

D $(3, 0)$

Question #10**Study the system of equations.**

$$3x - 7y = 53$$

$$5x + 2y = 20$$

What is the solution to the system?

A (-6, 5)

B (-5, 6)

C (5, -6)

D (6, -5)