

Systems of Linear Equations

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve using the substitution method.

1) $y = 3x - 5$ 1) _____
 $2x + y = 5$
A) (1, 2) B) (1, 3) C) (2, 1) D) (1, -2)

Solve the system by substitution.

2) $x - 8y = 5$ 2) _____
 $x = 9y$
A) $\left\{ \left(\frac{8}{17}, \frac{5}{17} \right) \right\}$ B) {(5, 45)} C) {(45, 5)} D) {(-45, -5)}

Solve using the substitution method.

3) $x + y = 16$ 3) _____
 $y = 5x - 2$
A) (4, 14) B) (2, 16) C) (3, 13) D) (13, 3)

Solve using the elimination method.

4) $-x - 2y = -14$ 4) _____
 $-5x + 2y = 2$
A) (3, 5) B) (2, 6) C) (-6, 2) D) No solution

Solve the system by the addition method.

5) $5x - 7y = 13$ 5) _____
 $-2x + 2y = -6$
A) {(3, 2)} B) {(4, 2)} C) {(4, 1)} D) \emptyset

Solve the system of equations by the elimination method.

6) $x - 4y = 26$ 6) _____
 $-3x - 5y = 24$
A) no solution B) (2, -6) C) (1, -5) D) (-2, -5)

Solve the system by elimination.

7) $9x + 7y = 2$ 7) _____
 $-3x - 4y = 1$
A) {(1, -1)} B) {(0, 0)} C) \emptyset D) {(1, 0)}

Solve the system of equations by the elimination method.

8) $x + 4y = 36$ 8) _____
 $-5x + 3y = -19$
A) (7, 8) B) (-8, 8) C) no solution D) (8, 7)

Solve the system by the addition method.

9) $9x + 7y = -3$ 9) _____
 $4x + 3y = -2$
A) {(-6, 7)} B) {(-5, 6)} C) {(-5, 7)} D) \emptyset

Answer Key

Testname: SYSTEMS OF LINEAR EQUATIONS

- 1) C
- 2) C
- 3) C
- 4) B
- 5) C
- 6) B
- 7) A
- 8) D
- 9) B