

Determine whether the given ordered pair is a solution of the system.

1) (3, 3)

$x + y = 0$

$x - y = -6$

A) not a solution

B) solution

1) _____

Solve the system of equations by the substitution method.

2)

$x + y = 6$

$y = -4x$

A) {(2, 8)}

B) {(2, -8)}

C) {(-2, 8)}

D) {(-2, -8)}

2) _____

3)

$2y = x + 24$

$5x + 10y = 0$

Solve the system by the addition method.

4) $x + y = -8$

$x - y = 19$

A) {(8, -13.5)}

B) {(8, 5.5)}

C) {(5.5, 13.5)}

D) {(5.5, -13.5)}

4) _____

5) $6x + 8y = 8$

$6x - 2y = -2$

A) {(1, 1)}

B) {(0, 0)}

C) {(0, 1)}

D) {(1, 0)}

5) _____

6) $-3x + 7y = 24$

$-5x - 4y = -7$

A) {(-1, 3)}

B) {(-1, -3)}

C) {(1, -3)}

D) {(1, 3)}

6) _____

Identify systems with no solution and systems with infinitely many solutions

7) $x + y = 5$

$x + y = -4$

A) {(5, -4)}

B) {(0, 1)}

C) $\{(x, y) \mid x + y = 5\}$

D) \emptyset

7) _____

8) $3x + y = 11$

$9x + 3y = 33$

A) {(5, -4)}

B) {(0, 11)}

C) $\{(x, y) \mid 3x + y = 11\}$

D) \emptyset

8) _____

9) $y = 15 - 4x$

$16x + 4y = 60$

A) {(5, -5)}

B) {(0, 15)}

C) $\{(x, y) \mid 4x + y = 15\}$

D) \emptyset

9) _____

Solve the problem.

10) The sum of two numbers is 9. If one number is subtracted from the other, their difference is -1.

Find the numbers.

A) -4, 5

B) 4, 5

C) 6, 3

D) 4, -5

10) _____

Answer Key

Testname: PRACTICE18

- 1) A
- 2) C
- 3) $\{-12, 6\}$
- 4) D
- 5) C
- 6) A
- 7) D
- 8) C
- 9) C
- 10) B