

Determine if the given ordered triple is a solution of the system.

1) $(-1, 5, 1)$

$$x + y + z = 5$$

$$x - y + 5z = -1$$

$$2x + y + z = 4$$

Solve the system of equations.

2) $x + y + z = -7$

$$x - y + 3z = -13$$

$$2x + y + z = -9$$

A) $\{(-4, -2, -1)\}$

B) $\{(-2, -1, -4)\}$

C) $\{(-4, -1, -2)\}$

D) $\{(-1, -2, -4)\}$

2) _____

3) $x - y + 3z = 13$

$$5x + z = 5$$

$$x + 2y + z = 9$$

A) $\{(2, 0, 5)\}$

B) $\{(5, 0, 2)\}$

C) $\{(0, 2, 5)\}$

D) $\{(5, 2, 0)\}$

3) _____

4) $x - y + z = 2$

$$x + y + z = 0$$

$$x + y - z = -6$$

A) $\{(-1, 3, -2)\}$

B) $\{(-2, -1, 3)\}$

C) $\{(-2, 3, -1)\}$

D) $\{(3, -2, -1)\}$

4) _____

5) $x + 4y + 5z = 26$

$$2y + 3z = 11$$

$$z = 1$$

A) $\{(5, 4, 1)\}$

B) $\{(5, 1, 4)\}$

C) $\{(4, 5, 1)\}$

D) $\{(1, 4, 5)\}$

5) _____

6) $2x + 2y + z = -10$

$$4x - 2y - z = -20$$

$$2x + y + 2z = -13$$

A) $\{(-5, -2, 1)\}$

B) $\{(1, -5, -2)\}$

C) $\{(-2, 1, -5)\}$

D) $\{(-5, 1, -2)\}$

6) _____

7) $x - y + 5z = -2$

$$5x + z = 0$$

$$x + 5y + z = 10$$

A) $\{(0, 0, 2)\}$

B) $\{(0, 2, -2)\}$

C) $\{(0, 2, 0)\}$

D) $\{(2, 0, 0)\}$

7) _____

Solve the problem.

8) The sum of three numbers is 12. If the second number is subtracted from the sum of the first and third numbers, the result is 2. If the third number is subtracted from the sum of the first and second numbers, the result is 4. Find the three numbers.

A) $x = 4, y = 5, z = 3$

B) $x = 3, y = 5, z = 4$

C) $x = 1, y = 7, z = 4$

D) $x = 4, y = 6, z = 2$

8) _____

9) Find the values of a , b , and c such that the graph of the quadratic equation $y = ax^2 + bx + c$ passes through the points $(-2, 4)$, $(-1, -4)$, and $(4, 16)$.

A) $a = 2; b = -2; c = -8$

B) $a = -2; b = -8; c = -2$

C) $a = -2; b = -2; c = -8$

D) $a = 2; b = -8; c = -2$

9) _____

Answer Key

Testname: PRACTICE19

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