

EXTRA PRACTICE — Exercises

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Unit IV – First Degree Relations with Three or More Placeholders

Part A – Solution Sets

Lesson 1 – One Open Sentence

For the following equation, determine whether the given ordered triples are solutions.

$$3x - 2y + 4z = 19$$

1. $(-2, 3, 7)$

2. $(3, -5, 0)$

3. $(-5, -7, 5)$

4. $(0, -3, 3)$

5. $(1, -2, 3)$

6. $(7, 1, 6)$

For the following equation, complete each of the ordered triples so it will be a solution.

$$2x - y + 3z = 9$$

7. $(\quad, 4, 1)$

8. $(6, \quad, 5)$

9. $(1, \quad, 1)$

10. $(-7, 1, \quad)$

11. $(2, \quad, 2)$

12. $(\quad, 1, 0)$

EXTRA PRACTICE — Answer Key

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For the following equation, determine whether the given ordered triples are solutions.

$$3x - 2y + 4z = 19$$

1. $16 = 19$ False $(-2, 3, 7)$ is not a solution
2. $19 = 19$ True $(3, -5, 0)$ is a solution
3. $19 = 19$ True $(-5, -7, 5)$ is a solution
4. $18 = 19$ False $(0, -3, 3)$ is not a solution
5. $19 = 19$ True $(1, -2, 3)$ is a solution
6. $43 = 19$ False $(7, 1, 6)$ is not a solution

For the following equation, complete each of the ordered triples so it will be a solution.

$$2x - y + 3z = 9$$

7. $x = 2$ Complete Solution is $(2, 4, 3)$
8. $y = 18$ Complete Solution is $(6, 18, 5)$
9. $y = -4$ Complete Solution is $(1, -4, 1)$
10. $z = 8$ Complete Solution is $(-7, 1, 8)$
11. $y = 1$ Complete Solution is $(2, 1, 2)$
12. $x = 5$ Complete Solution is $(5, 1, 0)$