

## EXTRA PRACTICE — Exercises

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### Unit III – First Degree Relations with Two Placeholders

#### Part A – Solution Set or One Open Sentence

#### Lesson 1 – Solution Sets For Equations

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

$$2m - 3n = -13$$

1. (3, 5)

2. (-2, 3)

3. (5, 1)

4. (4, 7)

5. (1, 5)

6. (-5, 1)

For the following equation, complete each of the ordered pairs so they will be solutions.

$$2a + 5b = 7$$

7. ( , 1)

8. ( , -5)

9. (-4, )

10. (11, )

11. (-9, )

12. ( , -1)

For the following equation, complete each of the ordered pairs so they will be solutions. Then graph those solutions using two number lines, showing their linear quality.

$$x + 2y = -6$$

13. (0, )

14. (6, )

15. (-2, )

16. (2, )

17. ( , 0)

18. ( , -7)

# EXTRA PRACTICE — Answer Key

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## Unit III – First Degree Relations with Two Placeholders Part A – Solution Set for One Open Sentence Lesson 1 – Solution Sets For Equations

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

- |                          |                        |                          |
|--------------------------|------------------------|--------------------------|
| 1. False; not a solution | 2. True; is a solution | 3. False; not a solution |
| 4. True; is a solution   | 5. True; is a solution | 6. True; is a solution   |

For the following equation, complete each of the ordered pairs so they will be solutions.

- |                           |             |             |
|---------------------------|-------------|-------------|
| 7. (1, 1)                 | 8. (16, -5) | 9. (-4, 3)  |
| 10. $(11, \frac{-29}{5})$ | 11. (-9, 5) | 12. (6, -1) |

For the following equation, complete each of the ordered pairs so they will be solutions. Then graph those solutions using two number lines, showing their linear quality.

- |              |             |
|--------------|-------------|
| 13. (0, -3)  | 14. (6, -6) |
| 15. (-2, -2) | 16. (2, -4) |
| 17. (-6, 0)  | 18. (8, -7) |

