EXTRA PRACTICE — Exercises

Copyright ® 2003 by Videotext Interactive

Unit IV – First Degree Relations with Three or More Placeholders Part A – Solution Sets

Lesson 3 – System of Three or More Open Sentences (Algebraic Solutions)

Find the solution set for each of the following systems of equations by combining them to temporarily eliminate placeholders.

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

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

2.
$$4x - y + z = 7$$
$$x - 2y - 3z = 0$$
$$x + z = 6$$

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

 $x + 3y - 4z = 1$
 $2x - y + 3z = 4$

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

 $2x + y + z = 0$
 $5x - 3y + 5z = 6$

5.
$$5a - 5b + 2c = 13$$

 $2a - 4b + 3c = 8$
 $3a + 2b - 4c = 2$

6.
$$^{-}4x - 3y = 9$$

 $2x + 2y + 7z = 15$
 $4y + 5z = 15$

7.
$$\frac{1}{4}x + \frac{1}{2}y + 3z = 2$$
$$\frac{3}{4}x - \frac{3}{2}y - z = 0$$
$$\frac{1}{2}x + y - 2z = 4$$

EXTRA PRACTICE — Answer Key

Copyright ® 2003 by Videotext Interactive

Unit IV – First Degree Relations with Three or More Placeholders Part A – Solution Sets

Lesson 3 – System of Three or More Open Sentences (Algebraic Solutions)

Find the solution set for each of the following systems of equations by combining them to temporarily eliminate placeholders.

1.
$$S = \{(1, 2, 2)\}$$

2.
$$S = \{(-8, -25, 14)\}$$

3.
$$S = \{(-1, 6, 4)\}$$

4.
$$S = \{(2, -2, -2)\}$$

5.
$$S = \{(4, 3, 4)\}$$

6.
$$S = \{(\frac{42}{17}, \frac{5}{17}, \frac{47}{17})\}$$

7.
$$S = \{(4, 2, 0)\}$$