## **Lesson 8.3: Solving Systems of Linear Equations by Elimination**

Complete the *Practice* below. When you have completed all the questions for *Lesson 8.3 Practice – IV* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



## Practice – IV

1. Use the following example to explain why the order of subtraction is not important when solving systems of equations by elimination.

2. The subtraction of two equations is shown.

$$5x + 3y - 1 = 0$$

$$- (2x - y + 4 = 0)$$

$$3x + 4y - 5 = 0$$

Explain why this subtraction is not useful for solving the linear system 5x + 3y - 1 = 0 and 2x - y + 4 = 0.

3. Solve the following systems of equations by elimination. Verify the solutions.

a. 
$$52 - a = 4b$$
  
 $70 - a = 6b$ 

b. 
$$3x + 5y = -2$$
  
 $x - y = -6$ 

c. 
$$7x = 11 + 5y$$
  
 $8y = -6x - 9$ 

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d. 
$$A - 2B = -4$$
  
 $2A + 3B = 10$ 

4. Attempt to solve the following systems of equations. How is each pair of lines related?

a. 
$$x + 3y = 11$$
  
 $4x + 12y = 44$ 

b. 
$$2x - 6y = 9$$
  
 $3x - 9y = 12$ 

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## Workbook 8A

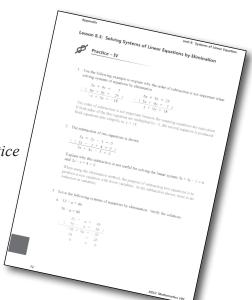
Mark your work for *Lesson 8.3 Practice – IV* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on Lesson 8.3 Practice – IV is \_\_\_\_\_.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

Question Number	Got it!	Almost there	Need to retry or ask for help.
1			
2			
3			
4			



You may proceed to Explore Your Understanding Assignment, on the next page of this Workbook.

**Note:** Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

• Page 488, #1, 2, 3, 4, 5, and 6

Check your work in Enhance Your Understanding.

