

Chapter 4 & 5 Final Review**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Solve the system of linear equations by elimination. Check your solution.

_____ 1. $3x - 18 = 2y$

$$5x - 6y = 14$$

a. $(-10, 6)$

c. $(10, -6)$

b. $(10, 6)$

d. $(-10, -6)$

_____ 2. $2x + 2y = 16$

$$-x + 2y = 1$$

a. $(15, -8)$

c. $(5, 3)$

b. $(15, 8)$

d. $(-5, 3)$

_____ 3. Which ordered pair is a solution to the system of linear equations below?

$$y = \frac{1}{4}x + 2$$

$$y = x - 1$$

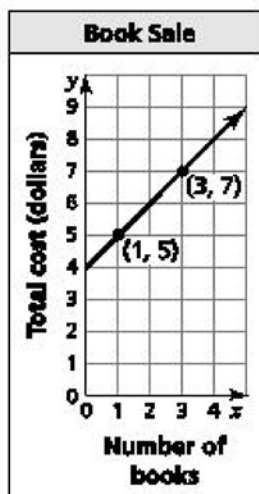
a. $(-4, 1)$

c. $(4, 3)$

b. $(3, 4)$

d. $(6, 4)$

_____ 4. The town library is having a used book sale. The graph below can be used to find the total cost y to buy x books. The total cost includes the admission fee. What is the equation of the line shown?



a. $y = x + 4$

c. $y = -x + 4$

b. $y = x - 4$

d. $y = -x - 4$

Name: _____

ID: A

Solve the system of linear equations using a graph.

_____ 5. $y = -x - 4$
 $y = \frac{1}{2}x + 5$

a. $(4, -8)$

c. $(7, 8\frac{1}{2})$

b. $(-6, 2)$

d. $(4, 7)$

Solve the system of linear equations by substitution. Check your solution.

_____ 6. $3x = y - 8$
 $x - 8 = y$

a. $(-16, -8)$

c. $(-8, -16)$

b. $(0, -8)$

d. $(-8, 0)$

_____ 7. $y - x = 0$
 $7x - 9y = 8$

a. $(4, 4)$

c. $(-4, 4)$

b. $(4, -4)$

d. $(-4, -4)$

Numeric Response

1. At a sporting event, the price for 3 cheeseburgers and 2 cups of lemonade is \$14 and the price for 2 cheeseburgers and 4 cups of lemonade is \$12. How much does it cost for 1 cheeseburger and 2 cups of lemonade?
2. One week you spent \$24 on 6 subway tickets and 4 express bus tickets. The next week you spent \$27 on 3 subway tickets and 7 express bus tickets. How much will it cost you to buy 5 subway tickets and 2 express bus tickets this week?
3. The table shows the purchases of two customers at a concession stand at the basketball game. You want to buy 10 drinks and 9 burgers for you and your friends. How much do you expect to pay?

	Hamburgers	Drinks	Total Cost
Customer 1	6	2	\$34.50
Customer 2	3	8	\$33.00

Name: _____

ID: A

Short Answer

Solve the system of linear equations by elimination. Check your solution.

1. $x + 6y = 12$

$$x + 3y = 3$$

2. $2x - y = -2$

$$x - 2y = -16$$

3. Consider the following system of linear equations.

$$y = x + 1$$

$$y = 2x$$

How can you check whether the point $(1, 2)$ is a solution of the system? Explain.

Chapter 4 & 5 Final Review Answer Section

MULTIPLE CHOICE

1. B
2. C
3. C
4. A
5. B
6. C
7. D

NUMERIC RESPONSE

1. \$6
2. \$16
3. 67.50

SHORT ANSWER

1. $(-6, 3)$
2. $(4, 10)$
3. *Sample answer:* A solution of a system of linear equations is an ordered pair that makes each equation true. So, check whether the point $(1, 2)$ makes both equations true.