Practice A

In Exercises 1-6, solve the system of linear equations by elimination. Check your solution.

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

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

2.
$$4x - y = 5$$

$$3x + y = 9$$

$$3. \quad 2x - 5y = -7$$
$$-2x + 3y = 1$$

$$3x + y = 9$$

4.
$$-x + y = 9$$
 5. $2x - 3y = 9$ **6.** $-4x - y = 11$

$$x + 2y = 6$$

5.
$$2x - 3y = 9$$

$$5x + 3y = 12$$

6.
$$-4x - y = 11$$

$$4x + 4y = -20$$

In Exercises 7-12, solve the system of linear equations by elimination. Check your solution.

7.
$$x + y = 7$$

$$5x + 2y = 8$$

8.
$$7x - 6y = 9$$

$$5x + 2y = 19$$

9.
$$2x - 7y = 5$$

$$x - y = 10$$

10.
$$3x + 4y = -1$$

$$-2x - 5y = 10$$

11.
$$-5x + 12y = 8$$

$$2x - 8y = 0$$

10.
$$3x + 4y = -1$$
 11. $-5x + 12y = 8$ **12.** $-10x + 3y = -30$

$$15x - 8y = 45$$

13. You and your friend are buying throw blankets with your names embroidered on them. The cost of the throw blanket is x dollars and the cost of each embroidered letter is y dollars. Your name has 6 letters and the total cost is \$29. Your friend's name has 3 letters and the total cost is \$24.50. Find the cost of the throw blanket and the cost of each embroidered letter

In Exercises 14-16, solve the system of linear equations using any method. Explain why you chose the method.

14.
$$2x - 5y = 1$$

$$2x = 9 - 3y$$

15.
$$4x - 6 = -2y$$

$$x + 9 = y$$

15.
$$4x - 6 = -2y$$
 16. $6x + 5y = 14$

$$3x + 10y = -8$$

17. You are ordering T-shirts for the Spanish Club. The table shows the orders for 45 students in the club.

Small	Medium	Large
11	x	у

- **a.** How many students ordered medium and large shirts?
- **b.** The number of students who ordered a medium T-shirt was two less than the number of students who ordered a large T-shirt. Write a system of linear equations that represents the number of students who ordered medium and large T-shirts.
- **c.** Solve the system of linear equations.
- **d.** You are ordering 10 additional medium and large T-shirts for new members who might join the club. Based on your answers in part (c), how many of each size would you order? Explain.