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### 5.3 Practice A

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

 solution.1. $x-3 y=2$
$-x+2 y=-3$
2. $4 x-y=5$
$3 x+y=9$
3. $2 x-5 y=-7$
$-2 x+3 y=1$
4. $-x+y=9$
$x+2 y=6$
5. $2 x-3 y=9$
$5 x+3 y=12$
6. $-4 x-y=11$
$4 x+4 y=-20$

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

 solution.7. $x+y=7$
$5 x+2 y=8$
8. $7 x-6 y=9$
$5 x+2 y=19$
9. $2 x-7 y=5$
$x-y=10$
10. $3 x+4 y=-1$
$-2 x-5 y=10$
11. $-5 x+12 y=8$
$2 x-8 y=0$
12. $-10 x+3 y=-30$
$15 x-8 y=45$
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. $2 x-5 y=1$
$2 x=9-3 y$
15. $4 x-6=-2 y$
$x+9=y$
16. $6 x+5 y=14$
$3 x+10 y=-8$
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 | $x$ | $y$ |

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.

