

Paper Practice 7.4

Elimination Using Multiplication

Use elimination to solve each system of equations.

1. $x + y = -3$
 $2x - 3y = 29$

2. $5x + 2y = 17$
 $x + y = 7$

3. $2x + y = 9$
 $3x - 4y = 30$

4. $-2x + 4y = 8$
 $x + 7y = 5$

5. $4x - y = 4$
 $5x - 3y = -9$

6. $5x + 3y = -25$
 $-4x + 2y = -2$

7. $5x + 3y = -18$
 $-2x + 5y = 1$

8. $2x + 7y = -10$
 $6x + 5y = 34$

9. $4x + 5y = 48$
 $7x - 3y = -10$

10. $6x - 3y = -30$
 $-5x + 4y = 31$

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11. $8x - 3y = -8$
 $2x - 7y = 48$

12. $3x + 7y = -4$
 $-7x + 9y = 60$

13. $2x + 3y = 10$
 $5x - 2y = 6$

14. $7x + 5y = -21$
 $-4x + 2y = 12$

15. $2x - 3y = 13$
 $6x + 7y = 23$

16. $-5x + 3y = 3$
 $2x - 5y = 14$

17. VIDEO GAMES Antwan is playing a video game where he collects coins and stars worth points. On the first level, he collects 9 coins and 11 stars and earns 6400 points. On the second level, he collects 7 coins and 12 stars and earns 6700 points.

a. Write a system of equations to find how many points a coin and a star are each worth.

b. Solve the system of equations to find how many points a coin and a star are each worth.