

6-2 Practice

Substitution

Use substitution to solve each system of equations.

1. $y = 6x$
 $2x + 3y = -20$

2. $x = 3y$
 $3x - 5y = 12$

3. $x = 2y + 7$
 $x = y + 4$

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

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

6. $3x + y = 12$
 $y = -x - 2$

7. $x + 2y = 13$
 $-2x - 3y = -18$

8. $x - 2y = 3$
 $4x - 8y = 12$

9. $x - 5y = 36$
 $2x + y = -16$

10. $2x - 3y = -24$
 $x + 6y = 18$

11. $x + 14y = 84$
 $2x - 7y = -7$

12. $0.3x - 0.2y = 0.5$
 $x - 2y = -5$

13. $0.5x + 4y = -1$
 $x + 2.5y = 3.5$

14. $3x - 2y = 11$
 $x - \frac{1}{2}y = 4$

15. $\frac{1}{2}x + 2y = 12$
 $x - 2y = 6$

16. $1 - 3x - y = 3$
 $2x + y = 25$

17. $4x - 5y = -7$
 $y = 5x$

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

19. EMPLOYMENT Kenisha sells athletic shoes part-time at a department store. She can earn either \$500 per month plus a 4% commission on her total sales, or \$400 per month plus a 5% commission on total sales.

- Write a system of equations to represent the situation.
- What is the total price of the athletic shoes Kenisha needs to sell to earn the same income from each pay scale?
- Which is the better offer?

20. MOVIE TICKETS Tickets to a movie cost \$7.25 for adults and \$5.50 for students. A group of friends purchased 8 tickets for \$52.75.

- Write a system of equations to represent the situation.
- How many adult tickets and student tickets were purchased?

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Nat Reed

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