

Practice Set 5.2
Solving Systems of Linear Equations by the Substitution Method

Solve each system by the substitution method.

1. $x = 2y - 4$
 $3x + y = -5$

1. _____

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

2. _____

3. $x = 3y + 1$
 $4x + 7y = 0$

3. _____

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

4. _____

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

5. _____

6. $3x - 4y = -1$
 $4x - y = 3$

6. _____

7. $4x + 2y = -3$
 $2x + y = 1$

7. _____

8. $10x - 5y = 20$
 $x + 6y = -11$

8. _____

9. $x + 3y = 5$
 $x - y = 1$

9. _____

Name _____

Date _____

10. $3x + 3y = 5$
 $2x + 3y = 7$

10. _____

11. $4x - y = 10$
 $8x - 2y = 20$

11. _____

12. $3x - y = 7$
 $x + 2y = 7$

12. _____

13. $2x + y = 2$
 $0.4x + 0.5y = -2$

13. _____

14. $\frac{x}{3} + \frac{y}{4} = 1$
 $x + 5y = 3$

14. _____

15. $y = \frac{-3}{4}x + 5$
 $y = \frac{1}{2}x$

15. _____

16. $0.4x - 0.2y = 2.8$
 $y = x - 2$

16. _____

17. $5x - 5y = 10 + 2x$
 $2x + y = 14 - 3y$

17. _____

18. $6x + 8y = 12 - 2y$
 $2x + 5y = 12 - x$

18. _____