Name: _____ Date: _____

Fresh Math

Systems Of Equations Using Substitution - Medium

Solve each system of equations using the substitution method.

1. $x + 4y = 16$
   $5x + 3y = 29$

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

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

4. $x - 3y = 6$
   $4x + 4y = 8$

5. $-2x + y = 0$
   $2x - 4y = 6$

6. $x + y = 8$
   $5x - 3y = 0$

7. $x + y = 10$
   $2x - 4y = -4$

8. $-3x + y = -21$
   $4x + 5y = 9$

9. $x + 2y = 18$
   $2x + 2y = 24$

10. $4x + y = 13$
    $3x + 5y = -3$

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Systems Of Equations Using Substitution - Medium

Solve each system of equations using the substitution method.

11. $x - y = -7$
    $5x + 2y = -7$

12. $-4x + y = -2$
    $3x + 5y = 13$

13. $x - 4y = 0$
    $4x + 2y = -18$

14. $x + y = 2$
    $2x - 5y = -38$

15. $-x + y = 6$
    $2x + 3y = 18$

16. $-3x + y = -3$
    $3x - 3y = -9$

Systems Of Equations Using Substitution - Medium - Answer Key

1. $x + 4y = 16$
   $5x + 3y = 29$
   (4, 3)

2. $-x + y = -5$
   $3x + 3y = -3$
   (2, -3)

3. $2x + y = 3$
   $3x - 3y = -18$
   (-1, 5)

4. $x - 3y = 6$
   $4x + 4y = 8$
   (3, -1)

5. $-2x + y = 0$
   $2x - 4y = 6$
   (-1, -2)

6. $x + y = 8$
   $5x - 3y = 0$
   (3, 5)

7. $x + y = 10$
   $2x - 4y = -4$
   (6, 4)

8. $-3x + y = -21$
   $4x + 5y = 9$
   (6, -3)

9. $x + 2y = 18$
   $2x + 2y = 24$
   (6, 6)

10. $4x + y = 13$
    $3x + 5y = -3$
    (4, -3)

Systems Of Equations Using Substitution - Medium - Answer Key

11. $x - y = -7$
    $5x + 2y = -7$
    $(-3, 4)$

12. $-4x + y = -2$
    $3x + 5y = 13$
    $(1, 2)$

13. $x - 4y = 0$
    $4x + 2y = -18$
    $(-4, -1)$

14. $x + y = 2$
    $2x - 5y = -38$
    $(-4, 6)$

15. $-x + y = 6$
    $2x + 3y = 18$
    $(0, 6)$

16. $-3x + y = -3$
    $3x - 3y = -9$
    $(3, 6)$