Name: _____ Date: _____

Fresh Math

Systems Of Equations Using Substitution - Medium

Solve each system of equations using the substitution method.

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

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

3. $-3x + y = 13$
   $5x - 3y = -15$

4. $x + y = 6$
   $5x + 2y = 12$

5. $-4x + y = 10$
   $5x + 5y = -50$

6. $x + y = 7$
   $3x + 4y = 24$

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

8. $x - 3y = 8$
   $2x + 3y = -11$

9. $3x + y = 11$
   $3x - 4y = 31$

10. $x - 3y = 6$
    $5x - 5y = 30$

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Systems Of Equations Using Substitution - Medium

Solve each system of equations using the substitution method.

11. $x + 4y = 2$
    $3x + 3y = 6$

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

13. $x - 2y = 0$
    $2x + 4y = 24$

14. $-2x + y = -10$
    $3x - 4y = 15$

15. $x + 2y = 4$
    $4x + 5y = 19$

16. $x - 3y = 15$
    $4x + 4y = -36$

Systems Of Equations Using Substitution - Medium - Answer Key

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

2. $2x + y = 5$
   $4x - 3y = 25$
   $(4, -3)$

3. $-3x + y = 13$
   $5x - 3y = -15$
   $(-6, -5)$

4. $x + y = 6$
   $5x + 2y = 12$
   $(0, 6)$

5. $-4x + y = 10$
   $5x + 5y = -50$
   $(-4, -6)$

6. $x + y = 7$
   $3x + 4y = 24$
   $(4, 3)$

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

8. $x - 3y = 8$
   $2x + 3y = -11$
   $(-1, -3)$

9. $3x + y = 11$
   $3x - 4y = 31$
   $(5, -4)$

10. $x - 3y = 6$
    $5x - 5y = 30$
    $(6, 0)$

Systems Of Equations Using Substitution - Medium - Answer Key

11. $x + 4y = 2$
    $3x + 3y = 6$
    (2, 0)

12. $-x + y = 3$
    $4x + 2y = -12$
    (-3, 0)

13. $x - 2y = 0$
    $2x + 4y = 24$
    (6, 3)

14. $-2x + y = -10$
    $3x - 4y = 15$
    (5, 0)

15. $x + 2y = 4$
    $4x + 5y = 19$
    (6, -1)

16. $x - 3y = 15$
    $4x + 4y = -36$
    (-3, -6)