Name : _____

Score : _____ Date : _____

MATH MONKS

Systems of Equations Worksheet

Solve each system by substitution.

1. $y = x + 15$
   $y = -2x - 4$

2. $-3x - 3y = 3$
   $y = -5x - 17$

3. $x + 5y = 15$
   $-3x + 2y = 6$

4. $5x - 6y = -14$
   $-2x + 4y = 12$

5. $-6x + 6y = -12$
   $8x - 3y = 16$

6. $y = 2x - 10$
   $y = 4x - 8$

7. $4x + 2y = 8$
   $16x - y = 14$

8. $y = -5$
   $3x + 4y = -17$

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Systems of Equations Worksheet

Answers

1. $y = x + 15$
   $y = -2x - 4$

   $x = -\frac{19}{3}$, $y = \frac{26}{3}$

2. $-3x - 3y = 3$
   $y = -5x - 17$

   $x = -4, y = 3$

3. $x + 5y = 15$
   $-3x + 2y = 6$

   $x = 0, y = 3$

4. $5x - 6y = -14$
   $-2x + 4y = 12$

   $x = 2, y = 4$

5. $-6x + 6y = -12$
   $8x - 3y = 16$

   $x = 2, y = 0$

6. $y = 2x - 10$
   $y = 4x - 8$

   $x = -1, y = -12$

7. $4x + 2y = 8$
   $16x - y = 14$

   $x = 1, y = 2$

8. $y = -5$
   $3x + 4y = -17$

   $x = 1, y = -5$