MATH
MONKS

Solving Systems of Equations by Elimination

Solve each system by using the method of elimination. Write the solution as an ordered pair.

1 $2x + y = 7$
   $x - 2y = 6$

2 $x - y = -6$
   $x + y = 8$

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3 $3x + 2y = -18$
   $13x - 2y = -14$

4 $x + 2y = 4$
   $13x + 2y = 28$

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5 $4x + 2y = 14$
   $5x + 2y = 16$

6 $9x - 2y = 16$
   $9x - 2y = -14$

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7 $-2x + 7y = 3$
   $-4x + 14y = 6$

8 $3x + 4y = 52$
   $5x + y = 30$

_____   _____

Solving Systems of Equations by Elimination

Answer.

1) $2x + y = 7$
   $x - 2y = 6$

   ___(4 , -1)___

2) $x - y = -6$
   $x + y = 8$

   ___(1 , 7)___

3) $3x + 2y = -18$
   $13x - 2y = -14$

   ___(-2 , -6)___

4) $x + 2y = 4$
   $13x + 2y = 28$

   ___(2 , 1)___

5) $4x + 2y = 14$
   $5x + 2y = 16$

   ___(2 , 3)___

6) $9x - 2y = 16$
   $9x - 2y = -14$

   (No Solution)

7) $-2x + 7y = 3$
   $-4x + 14y = 6$

   (Infinite Solutions)

8) $3x + 4y = 52$
   $5x + y = 30$

   ___(4 , 10)___