Practice 5-2   Solving Systems by Substitution

Solve each system of equations using substitution. Check your answer.

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

2. $3y - 2x = 0$
   $y = 4x - 1$

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

4. $2y - \dfrac{3}{4}x = -10$

   $y + \dfrac{1}{4}x = 0$

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5. A gym charges a one-time registration fee as well as a monthly fee. The cost of joining the gym for 4 months is $370, and the cost of joining for 6 months is $530. Write and solve a system of equations to find the registration fee and monthly fee.

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