

Name :

Score : Date :

Solving Systems by Substitution

Solve each system by substitution.

1) $x = -2y$
 $x - y = 9$

2) $y = x - 4$
 $-4x - 6y = -16$

3) $-x - 3y = -18$
 $y = -4x + 6$

4) $-2x + 2y = 6$
 $4x + 2y = -5$

5) $y = -6$
 $3x - 6y = 30$

6) $-2x - y = -5$
 $x - 8y = -23$

7) $2x + y = 2$
 $3x + 7y = 14$

8) $y = 4x - 9$
 $y = x - 3$

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Answers

1) $x = -2y$
 $x - y = 9$

$x = 6, y = -3$

3) $-x - 3y = -18$
 $y = -4x + 6$

$x = 0, y = 6$

5) $y = -6$
 $3x - 6y = 30$

$x = -2, y = -6$

7) $2x + y = 2$
 $3x + 7y = 14$

$x = 0, y = 2$

2) $y = x - 4$
 $-4x - 6y = -16$

$x = 4, y = 0$

4) $-2x + 2y = 6$
 $4x + 2y = -5$

$x = -\frac{11}{6}, y = \frac{7}{6}$

6) $-2x - y = -5$
 $x - 8y = -23$

$x = 1, y = 3$

8) $y = 4x - 9$
 $y = x - 3$

$x = 2, y = -1$