

Name : _____

Score : _____ Date : _____

Solving Systems of Equations by Substitution

Solve each system by substitution. Show your work.

① $y = 6x - 11$
 $-2x - 3y = -7$

② $x + 3y = 6$
 $2x + 8y = -12$

③ $x + 3y = 12$
 $2x + y = 6$

④ $y = -2x - 9$
 $y = -5x - 21$

⑤ $-2x + 4y = -16$
 $y = x - 2$

⑥ $2x - 3y = -1$
 $y = x - 1$

⑦ $y = 2x - 15$
 $y = 5x$

⑧ $2x + 4y = 4$
 $y = x - 2$

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Answers

① $y = 6x - 11$
 $-2x - 3y = -7$

$x = 2, y = 1$

② $x + 3y = 6$
 $2x + 8y = -12$

$x = 42, y = -12$

③ $x + 3y = 12$
 $2x + y = 6$

$x = \frac{6}{5}, y = \frac{18}{5}$

④ $y = -2x - 9$
 $y = -5x - 21$

$x = -4, y = -1$

⑤ $-2x + 4y = -16$
 $y = x - 2$

$x = -4, y = -6$

⑥ $2x - 3y = -1$
 $y = x - 1$

$x = 4, y = 3$

⑦ $y = 2x - 15$
 $y = 5x$

$x = -5, y = -25$

⑧ $2x + 4y = 4$
 $y = x - 2$

$x = 2, y = 0$