

Solving Systems of Equations by Substitution

Date _____ Period _____

Solve each system by substitution.

$$\begin{aligned} 1) \quad & y = 6x - 11 \\ & -2x - 3y = -7 \end{aligned}$$

$$\begin{aligned} 2) \quad & 2x - 3y = -1 \\ & y = x - 1 \end{aligned}$$

$$\begin{aligned} 3) \quad & y = -3x + 5 \\ & 5x - 4y = -3 \end{aligned}$$

$$\begin{aligned} 4) \quad & -3x - 3y = 3 \\ & y = -5x - 17 \end{aligned}$$

$$\begin{aligned} 5) \quad & y = -2 \\ & 4x - 3y = 18 \end{aligned}$$

$$\begin{aligned} 6) \quad & y = 5x - 7 \\ & -3x - 2y = -12 \end{aligned}$$

$$\begin{aligned} 7) \quad & -4x + y = 6 \\ & -5x - y = 21 \end{aligned}$$

$$\begin{aligned} 8) \quad & -7x - 2y = -13 \\ & x - 2y = 11 \end{aligned}$$

$$\begin{aligned} 9) \quad & -5x + y = -2 \\ & -3x + 6y = -12 \end{aligned}$$

$$\begin{aligned} 10) \quad & -5x + y = -3 \\ & 3x - 8y = 24 \end{aligned}$$

11) $x + 3y = 1$
 $-3x - 3y = -15$

12) $-3x - 8y = 20$
 $-5x + y = 19$

13) $-3x + 3y = 4$
 $-x + y = 3$

14) $-3x + 3y = 3$
 $-5x + y = 13$

15) $6x + 6y = -6$
 $5x + y = -13$

16) $2x + y = 20$
 $6x - 5y = 12$

17) $-3x - 4y = 2$
 $3x + 3y = -3$

18) $-2x + 6y = 6$
 $-7x + 8y = -5$

19) $-5x - 8y = 17$
 $2x - 7y = -17$

20) $-2x - y = -9$
 $5x - 2y = 18$