

Solving Systems of Equations by Substitution

Name _____ Date _____ Period _____

Solve each system by substitution.

1) $y = 6x - 11$
 $-2x - 3y = -7$

2) $2x - 3y = -1$
 $y = x - 1$

3) $y = -3x + 5$
 $5x - 4y = -3$

4) $-3x - 3y = 3$
 $y = -5x - 17$

5) $y = -2$
 $4x - 3y = 18$

6) $y = 5x - 7$
 $-3x - 2y = -12$

7) $-4x + y = 6$
 $-5x - y = 21$

8) $-7x - 2y = -13$
 $x - 2y = 11$

9) $-5x + y = -2$
 $-3x + 6y = -12$

10) $-5x + y = -3$
 $3x - 8y = 24$

Substitution Practice Day 1

Name _____

Solve the following systems of equations by substitution. Show all of your work.

1.

$$\begin{aligned}y &= 2x - 15 \\ y &= 5x\end{aligned}$$

2.

$$\begin{aligned}y &= 4x - 10 \\ y &= 5 - x\end{aligned}$$

3.

$$\begin{aligned}x &= -4y \\ x &= 4 - 6y\end{aligned}$$

4.

$$\begin{aligned}x + 4y &= 19 \\ x - 2y &= 1\end{aligned}$$

5.

$$\begin{aligned}2x + 2y &= 0 \\ 6x + y &= -10\end{aligned}$$

6.

$$\begin{aligned}3x - 5y &= 12 \\ y &= \frac{3}{5}x\end{aligned}$$

7.

$$\begin{aligned}c - 3d &= 2 \\ 3c + d &= 16\end{aligned}$$

8.

$$\begin{aligned}3r - s &= 3 \\ -6r + 5s &= 21\end{aligned}$$