

5-2 Solving by Substitution

Date _____ Period _____

Solve each system by substitution.*****Please use separate paper to show your work, and make sure to staple your work to this sheet.**

1)
$$\begin{aligned} y &= -4x - 8 \\ y &= x + 7 \end{aligned}$$

2)
$$\begin{aligned} y &= -4x + 10 \\ y &= -2 \end{aligned}$$

3)
$$\begin{aligned} y &= 4x + 1 \\ y &= x - 2 \end{aligned}$$

4)
$$\begin{aligned} -7x - 3y &= -15 \\ y &= -3x + 7 \end{aligned}$$

5)
$$\begin{aligned} 7x - 3y &= 19 \\ y &= -3x + 15 \end{aligned}$$

6)
$$\begin{aligned} y &= x - 2 \\ 8x - 3y &= -4 \end{aligned}$$

7)
$$\begin{aligned} x - 5y &= 2 \\ 4x - 6y &= -6 \end{aligned}$$

8)
$$\begin{aligned} 4x + y &= 10 \\ -7x + 3y &= 11 \end{aligned}$$

9)
$$\begin{aligned} -2x + 6y &= -16 \\ x - 2y &= 6 \end{aligned}$$

10)
$$\begin{aligned} x + y &= -3 \\ -x + 2y &= 9 \end{aligned}$$

11)
$$\begin{aligned} -2x - 2y &= 14 \\ -x - 4y &= 10 \end{aligned}$$

12)
$$\begin{aligned} -2x + 4y &= 2 \\ -3x - 6y &= -9 \end{aligned}$$