

5.2B Using Substitution to Solve Systems of Equation Date _____ Period _____

Solve each system by substitution.

$$\begin{aligned} 1) \quad x + 4y &= -22 \\ -8x - 5y &= -40 \end{aligned}$$

$$\begin{aligned} 2) \quad y &= 16x - 18 \\ -10x - 2y &= -48 \end{aligned}$$

$$\begin{aligned} 3) \quad y &= -4x - 8 \\ -12x - 4y &= 16 \end{aligned}$$

$$\begin{aligned} 4) \quad -7x - y &= 30 \\ x + y &= 6 \end{aligned}$$

$$\begin{aligned} 5) \quad & -6x + 3y = -21 \\ & -17x + y = 38 \end{aligned}$$

$$\begin{aligned} 6) \quad & y = -2x - 6 \\ & 20x + 8y = -48 \end{aligned}$$

Solve the system of linear equations by graphing. Show all work.

$$\begin{aligned} 7) \quad & -8y - 3x = -64 \\ & 16y = -304 - 33x \end{aligned}$$

