

## HW20: Solving by Elimination

Solve each system by elimination.

$$\begin{aligned} 1) \quad & 5x - 5y = -35 \\ & 13x + 5y = -37 \end{aligned}$$

$$\begin{aligned} 2) \quad & 9x + 7y = 10 \\ & -10x - 7y = -8 \end{aligned}$$

$$\begin{aligned} 3) \quad & 14x + 6y = -27 \\ & -14x - 6y = 34 \end{aligned}$$

$$\begin{aligned} 4) \quad & 2x - 11y = -30 \\ & -2x + 13y = 38 \end{aligned}$$

$$\begin{aligned} 5) \quad & -10x + 5y = 0 \\ & -4x - 5y = 42 \end{aligned}$$

$$\begin{aligned} 6) \quad & -4x + 14y = 2 \\ & x - 14y = 31 \end{aligned}$$

$$\begin{aligned} 7) \quad & x + 2y = 8 \\ & 11x - 2y = -32 \end{aligned}$$

$$\begin{aligned} 8) \quad & -11x - 9y = -38 \\ & 11x + 6y = -4 \end{aligned}$$

$$\begin{aligned} 9) \quad & 10x + 3y = 20 \\ & -10x - 3y = -20 \end{aligned}$$

$$\begin{aligned} 10) \quad & x + 9y = 18 \\ & -x + 11y = 2 \end{aligned}$$

$$\begin{aligned} 11) \quad & -3x - y = 2 \\ & 3x - 5y = 28 \end{aligned}$$

$$\begin{aligned} 12) \quad & -7x - 2y = 11 \\ & 9x + 2y = -13 \end{aligned}$$

$$\begin{aligned} 13) \quad & 7x - 11y = 19 \\ & -7x + 10y = -23 \end{aligned}$$

$$\begin{aligned} 14) \quad & 8x - 10y = 14 \\ & -14x + 10y = 28 \end{aligned}$$

Find the least common multiple of each pair of numbers.

$$15) \quad 20, 16$$

$$16) \quad 15, 10$$

$$17) \quad 12, 15$$

$$18) \quad 14, 16$$

$$19) \quad 20, 15$$

$$20) \quad 20, 30$$

$$21) \quad 30, 25$$

$$22) \quad 18, 24$$

Simplify.

$$23) \quad -7\sqrt{8}$$

$$24) \quad -5\sqrt{32}$$