

$$13. \quad 38 - 5m = -7(2m + 1)$$

$$\begin{array}{rcl} 38 - 5m & = & -14m - 7 \\ +14m & & +14m \end{array}$$

$$\begin{array}{rcl} 38 + 9m & = & -7 \\ -38 & & -38 \end{array}$$

$$\begin{array}{rcl} 9m & = & -45 \\ \div 9 & & \div 9 \end{array}$$

$$\boxed{m = -5}$$

$$16. \quad -9(-6 - 2x) = -12(5x + 5)$$

$$54 + 54x = -60x + -60$$

$$+60x \quad +60x$$

$$54 + 114x = -60$$

$$-54 \quad -54$$

$$114x = -114$$

$$\div 114 \quad \div 114$$

$$x = -1$$

17.

$$\begin{array}{r|l} 5\frac{5}{12} & = \frac{1}{2}v + 6 - \frac{5}{3}v \\ -5\frac{12}{12} & -6 \\ \hline -\frac{7}{12} & \frac{1}{2}v + -\frac{5}{3}v \\ \hline -\frac{7}{12} & = \frac{3}{6}v - \frac{10}{6}v \\ \hline \left(\begin{array}{c} -\frac{1}{6} \\ -\frac{1}{6} \\ -\frac{1}{6} \end{array} \right) \cdot \left(\begin{array}{c} 1 \\ 1 \\ 2 \end{array} \right) & = -\frac{7}{6}v - \frac{6}{7} \\ \hline \left[\begin{array}{c|c} -\frac{1}{2} & = v \end{array} \right] & \end{array}$$