

$$6. \quad \frac{1}{2}(6x - 8) + 3(x + 2) = 4(2x - 1)$$

$$3x - 4 + 3x + 6 = 8x - 4$$

$$6x + 2 = 8x - 4$$

$$\begin{array}{r} -6x \qquad \qquad -6x \end{array}$$

$$2 = 2x - 4$$

$$\begin{array}{r} +4 \qquad \qquad +4 \end{array}$$

$$6 = 2x$$

$$\frac{6}{2} = \frac{2}{2}x$$

$$3 = x$$