

Solve for x.

$$\frac{3}{2}(2x - 5) = -\frac{3}{4}(2 - 3x)$$

$$\cancel{2} \frac{3(2x-5)}{\cancel{2}} = \frac{\cancel{2} \cdot 3(2-3x)}{4}$$

$$\cancel{4} \cdot 3(2x-5) = \frac{\cancel{4} \cdot 6(2-3x)}{\cancel{4}}$$

$$12(2x-5) = -6(2-3x)$$

$$\begin{array}{r} 24x - 60 = -12 + 18x \\ -18x \quad \quad \quad -18x \end{array}$$

$$\begin{array}{r} 6x - 60 = -12 \\ +60 \quad +60 \end{array}$$

$$\begin{array}{r} 6x = 48 \\ \hline 6 \quad 6 \end{array}$$

$$\boxed{x = 8}$$

