

# SOLVING EQUATIONS

Solve

$$5(4-2x) = x - 3(2x-1)$$

$$20 - 10x = x - 6x + 3$$

$$\begin{array}{r} 20 - 10x = -5x + 3 \\ -3 + 10x \quad +10x \quad -3 \end{array}$$

$$\frac{17}{5} = \frac{5x}{5}$$

$$\frac{17}{5} = x$$

multiply entire by common denom to cancel fractions.

$$\frac{5}{5} \left[ \frac{4}{5}x - 2 = \frac{2}{5}(x+4) + 1 \right]$$

$$20x - 30 = 6(x+4) + 15$$

$$20x - 30 = 6x + 24 + 15$$

$$\begin{array}{r} 20x - 30 = 6x + 39 \\ -6x \quad +30 \quad -6x \quad +30 \end{array}$$

$$\frac{14x}{14} = \frac{69}{14}$$

$$x = \frac{69}{14}$$

