

$$3(2x - 4) = 5x - (12 - x) \quad - (12 - x)$$

$$6x - 12 = 5x - 12 + x$$

$$6x - 12 = 6x - 12$$

$$\begin{array}{r} 6x - 12 \\ -6x \hline -12 = -12 \end{array} \quad \checkmark$$

$$\boxed{x \in \mathbb{R}}$$

$$3(x-6) + 7x = 5(2x-1)$$

$$3x - 18 + 7x = 10x - 5$$

$$\cancel{10x} - 18 = \cancel{10x} - 5$$

$$-18 = -5 \quad \times$$

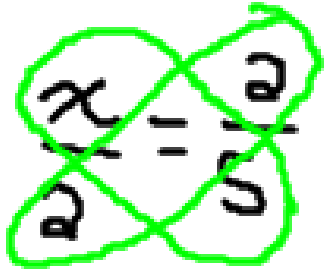
No solution
 $x = \phi$

check

$$x = 0$$
$$3(0-6) + 7(0) = 5(2(0)-1)$$

$$3(-6) = 5(-1)$$

$$-18 \neq -5$$



$$\frac{2x + 3}{5} = \frac{1}{2}$$

$$2(2x + 3) = 5(1)$$

$$\frac{4x + 6}{-6} = \frac{5}{-6}$$

$$\frac{4x}{4} = \frac{-1}{4}$$

$$x = -\frac{1}{4}$$

$$\frac{1}{2} \cdot \frac{(3x+1)}{1} = -4$$

$$\frac{(3x+1)}{2} = -4$$

$$\frac{1}{4} (2x+1)$$
$$\frac{2x+1}{4}$$