

Starter

31 JAN 2018

Solve for x.

$$1) \quad \frac{2x}{2} = \frac{15}{2}$$

$$x = 7.5$$

$$2) \quad \begin{array}{r|l} 3 + 2x & = -9 \\ -3 & \\ \hline 2x & = -12 \\ \frac{2x}{2} & \frac{-12}{2} \end{array}$$

$$x = -6$$

You Try!

$$1) \quad \begin{array}{r} 3 + 6y = -15 \\ -3 \quad -3 \\ \hline 6y = -18 \\ \frac{6y}{6} = \frac{-18}{6} \end{array}$$

$$y = -3$$

re-write as
 $6y + 3 = -15$

$$\begin{array}{r|l} 2) & 3x - 7 = -10 \\ & \underline{+7} \quad \underline{+7} \\ & 0 \\ & 3x = -3 \\ & \underline{\quad} \quad \underline{\quad} \\ & 3 \quad \quad 3 \end{array}$$

$$x = -1$$

$$\begin{array}{r} 3) \quad -4x + 2 = -10 \\ \quad \quad \underline{-2} \quad \underline{-2} \end{array}$$

$$\begin{array}{r} -4x = -12 \\ \underline{-4} \quad \underline{-4} \end{array}$$

$$x = 3$$

$$4) \quad 2 - \frac{1}{3}x = -5$$

$$\underline{-2} \quad \underline{-2}$$

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

$$\underline{-2} \quad \underline{-2}$$

$$\cancel{-3} \cdot \frac{1}{3}x = -7 \cdot -3$$

$$-\frac{1}{3}x = -7$$

$$x = 21$$

$$7) \quad 3 \cdot \frac{9+k}{3} = 3 \cdot 3$$

$$3 \cdot \frac{9}{3} = 3 \cdot 3$$

$$9+k=9$$

$$\underline{-9} \quad \underline{-9}$$

$$x=9$$

$$k=0$$