Solve the following equation and check the answer. Identify whether the following equation is an identi
a conditional equation.

$4t - 8 = 6t + 12$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

$4t - 8 = 6t + 12$

$-4t \quad -4t$

$-8 = 2t + 12$

$-12 \quad -12$

$-20 = 2t$

$\frac{-20}{2} = \frac{2t}{2}$

$t = -10$

$-10 = t$

$$\begin{array}{r} 2t+1 = 2t-5 \\ -2t \qquad -2t \\ \hline 1 \neq -5 \end{array}$$

$\emptyset$

$$\begin{array}{r} 3t-1 = 3t-1 \\ -3t \qquad -3t \\ \hline -1 = -1 \end{array}$$

all Real #

Solve

$$\frac{\cancel{12}^{3}}{1}\left(\frac{x-3}{\cancel{4}}\right)+\frac{\cancel{12}^{1}}{1}\left(\frac{1}{\cancel{2}}\right)=\frac{\cancel{12}^{1}}{1}\left(\frac{x+2}{\cancel{6}}\right)$$

$$3(x-3)+6=2(x+2)$$

$$3x-9+6=2x+4$$

$$3x-3=2x+4$$

$$\begin{array}{rr} -2x & -2x \\ \hline \end{array}$$

$$x-3=4$$

$$\begin{array}{rr} +3 & +3 \\ \hline \end{array}$$

$$x=7$$

conditional equation.

$$2(x+1)-9x=-(x-10)+(2x+2)$$

$-\frac{5}{4}$, $-\frac{10}{7}$

Select the correct choice below and, if necessary, fill in

$2x+2-9x=-x+10+2x+2$

$-7x+2=x+12$

$-x \quad -x$

$-8x+2=12$

$-2 \quad -2$

$-8x=10$

$\frac{-8x}{-8}=\frac{10}{-8}$

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

$$2x+3=2x+3$$
$$-2x \qquad -2x$$

$3=3$ T

all Real #'s

$$3x-1=3x+2$$
$$-3x \qquad -3x$$

F $-1 \neq 2$

$\emptyset$

Solve $\frac{6}{1}\left(\frac{3x+1}{2}\right) - \frac{6}{1}\left(\frac{3}{1}\right) = \frac{1}{6}\left(\frac{x-3}{6}\right)$

$3(3x+1) - 18 = x - 3$

$9x + 3 - 18 = x - 3$

$9x - 15 = x - 3$

$-x + 15 \quad -x + 15$

$8x = 12$

$\frac{8x}{8} = \frac{12}{8} = \frac{3}{2}$

$x = \frac{3}{2}$