

Classwork

Alg 1 - Monday 9-10-12

$$(12) \quad \left(\frac{4}{3}N\right) + 1(-N) = \frac{5}{4}$$

$$\left(\frac{4}{3}N\right) + 1\left(-\frac{3}{3}N\right) = \frac{5}{4}$$

$$\begin{array}{rcl} \downarrow & & \\ \frac{1}{3}N + 1 & = & \frac{5}{4} \\ \cancel{+ 1} & & = \boxed{-1 = -\frac{4}{4}} \end{array}$$

$$\cancel{\frac{3}{1} \cdot \frac{1}{3}N} = \frac{1}{4} \cdot \frac{3}{1}$$

$$\boxed{N = \frac{3}{4}}$$

CK
(do it!)

$$\textcircled{11.} \quad -6(N+8) = -84$$

$$-6\overset{\downarrow}{N} - 48 = -84$$

$$+48 \quad +48$$

$$\begin{array}{r} -6N \\ \hline -6 \end{array} \quad = \quad \begin{array}{r} -36 \\ \hline -6 \end{array}$$

$$\boxed{N = 6}$$

OK



①

$$6x + 4x = -3 + 5x + 2x$$

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

$$-7x$$

$$-7x$$

$$3x = -3$$

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

$$x = -1$$

$$\underline{\underline{CK}} \quad 6(-1) + 4(-1) \stackrel{?}{=} -3 + 5(-1) + 2(-1)$$

$$-6 + 4(-1) \stackrel{?}{=} -3 - 5 + 2(-1)$$

$$-6 - 4 \stackrel{?}{=} -3 - 5 - 2$$

$$-10 \stackrel{?}{=} -8 - 2$$

$$-10 \stackrel{?}{=} -10 \checkmark$$

4.

$$\textcircled{9} \quad -2(7m+1) = -6m-10$$

$$\begin{array}{rcl} & \swarrow & \searrow \\ -14m - 2 & = & -6m - 10 \\ +14m & & +14m \end{array}$$

$$\begin{array}{rcl} & \downarrow & \\ -2 & = & 8m - 10 \\ +10 & & +10 \end{array}$$

$$\frac{8}{8} = \frac{8m}{8}$$

$$1 = m$$

$$\boxed{m=1}$$

$$\underline{\underline{\text{CK}}} \quad -2[7(1)+1] \stackrel{?}{=} -6(1)-10$$

$$-2[7+1] \stackrel{?}{=} -6-10$$

$$-2[8] \stackrel{?}{=} -16$$

$$-16 \stackrel{?}{=} -16 \checkmark$$

5

$$\textcircled{5} \quad 6x + 2x = 5x$$

$$\begin{array}{rcl} & \swarrow & \searrow \\ 8x & = & 5x \\ -5x & & -5x \\ \hline 3x & = & 0 \\ \hline 3 & & 3 \end{array}$$

$$\boxed{x = 0}$$

$$\begin{array}{rcl} \underline{\text{ck}} & 6(0) + 2(0) & \stackrel{?}{=} 5(0) \\ & 0 + 0 & \stackrel{?}{=} 0 \quad \checkmark \end{array}$$