

Chap 1 Sec 4

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$$3) \quad 30 + \underline{2k} + 5k = 100$$

$$\begin{array}{r} 30 + 7k = 100 \\ -30 \quad \quad -30 \\ \hline 7k = 70 \\ \underline{7} \quad \underline{7} \\ k = 10 \end{array}$$

$$\star \quad \underline{4x} + 10 - \underline{2x} = 15$$

$$\begin{array}{r} 2x + 10 = 15 \\ -10 \quad -10 \\ \hline 2x = 5 \\ \underline{2} \quad \underline{2} \\ x = 5/2 \end{array}$$

~~9 4~~

$$\begin{array}{r} \underline{-2x - 5} - \underline{4x} = 9 \\ -7x - 5 = 9 \\ \underline{\quad + 5 \quad + 5} \\ -7x = 14 \\ \underline{-7} \quad \underline{-7} \\ x = -2 \end{array}$$

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$$4) z + (z - 6) - 2 = -10$$

$$\underline{z + z - 6 - 2 = -10}$$

$$\begin{array}{r} 2z - 8 = -10 \\ +8 \quad +8 \\ \hline \end{array}$$

$$\begin{array}{r} 2z = -2 \\ \frac{2z}{2} = \frac{-2}{2} \\ z = -1 \end{array}$$

~~4) 4 - (x - 6) - 2x = -2~~

$$\underline{4 - x + 6 - 2x = -2}$$

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

$$\begin{array}{r} -3x = -12 \\ \frac{-3x}{-3} = \frac{-12}{-3} \\ x = 4 \end{array}$$

~~4) 2x - (4 - 2x) + 3 = -7~~

$$\underline{2x - 4 + 2x + 3 = -7}$$

$$\begin{array}{r} 4x - 1 = -7 \\ +1 \quad +1 \\ \hline \end{array}$$

$$\begin{array}{r} 4x = -6 \\ \frac{4x}{4} = \frac{-6}{4} \\ x = -\frac{6}{4} \end{array}$$