

Chap 1 Sec 4

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

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

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

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

~~9/4~~ $\underline{-2x} - 5 - \underline{4x} = 9$

$$\begin{array}{r} -7x - 5 = 9 \\ + 5 \quad + 5 \\ \hline \end{array}$$

$$\begin{array}{r} -7x = 14 \\ \underline{-7} \quad \underline{-7} \end{array}$$

$$x = -2$$

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

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

$$2z - 8 = -10$$

$$\begin{array}{r} +8 \quad +8 \\ \hline \end{array}$$

$$\underline{2z} = \underline{-2}$$

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

$$z = -1$$

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

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

$$10 - 3x = -2$$

$$\begin{array}{r} -10 \quad -10 \\ \hline \end{array}$$

$$\frac{-3x}{-3} = \frac{-12}{-3}$$

$$1x = 4$$

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

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

$$\underline{4x} - \underline{1} = \underline{-7}$$

$$\begin{array}{r} +1 \quad +1 \\ \hline \end{array}$$

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

$$\underline{4} \quad \underline{4}$$

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

