

$$2(x+4) + 2x = 100$$

$$2x + 8 + 2x = 100$$

$$2x + 2x + 8 = 100$$

$$\underbrace{2x + 2x}_{4x} + 8 = 100$$

$$+ 8$$

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$$- 8$$

$$4x$$

$$= 100$$
$$= 100$$
$$= 100$$
$$= 100$$
$$- 8$$
$$= \frac{92}{4}$$

$$x = 23$$

$$2(x+4) + 2x = 100$$

$$2(23+4) + 2(23) = 100$$

$$2(27) + 2(23) = 100$$

$$54 + 46 = 100$$

$$100 = 100 \checkmark$$

$$-3x + 2(x-4) - x = -20$$

$$\underline{-3x + 2x - 8 - x}$$

$$\underline{-3x + 2x - 1x}$$

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$$-2x$$

$$\begin{array}{r} -8 \\ +8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} -20 \\ -20 \\ -20 \\ -20 \\ +8 \end{array}$$

$$-2x = -12$$

$$\underline{-2x = -12}$$

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

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$$\boxed{x = 6}$$

$$-3 + 2 - 1 = -2$$

$$-3x + 2(x-4) - x = -20$$

$$-3(6) + 2((6)-4) - (6) = -20$$

$$-18 + 2(2) - 6 = -20$$

$$-18 + 4 - 6 = -20$$

$$-14 - 6 = -20$$

$$-14 - 6 = -20$$

$$\checkmark -20 = -20$$



$$5(x-20) - (x-3) = 47$$

$$5(\cancel{36} - 20) - (\cancel{36} - 3) = 47$$

$$5(16) - (33) = 47$$

$$80 - 33 = 47$$

$$47 = 47 \checkmark$$