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To remove x from the left side, we Subtract 2x on both sides

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Now, we Subtracting 12 to both sides

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$$4-12 = x + 12-12$$

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-8 = 4 - 12 = x + 12 - 12

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Now, we Subtracting 12 to both sides

$$-8 = 4 - 12 = x \pm 12 - 12 = x$$

Find solutions to the equation:

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$$4 = x + 12$$

Now, we Subtracting 12 to both sides

$$-8 = 4 - 12 = x \pm 12 - 12 = x$$

The solution to 2x + 4 = 3x + 12 is x = -8