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$$x + 1 = 3x - 7$$

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To solve for x, we will start by getting the x's together.

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$$x - x + 1 = 3x - x - 7$$

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$$1 = x + 1 = \underbrace{3x - x}_{2x} - 7 = 2x - 7$$
$$1 = 2x - 7$$

Now, we Adding 7 to both sides

$$8 = 1 + 7 = 2x - 7 + 7 = 2x$$

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$$8 = 1 + 7 = 2x - 7 + 7 = 2x$$

$$\frac{8}{2} = \frac{2x}{2}$$

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

$$1 = x + 1 = \underbrace{3x - x}_{2x} - 7 = 2x - 7$$
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$$8 = 1 + 7 = 2x - 7 + 7 = 2x$$

$$\frac{8}{2} = \frac{2x}{2} = x$$

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

$$1 = x + 1 = \underbrace{3x - x}_{2x} - 7 = 2x - 7$$
$$1 = 2x - 7$$

Now, we Adding 7 to both sides

$$8 = 1 + 7 = 2x - 7 + 7 = 2x$$

$$4 = \frac{8}{2} = \frac{2x}{2} = x$$

Solve the equation:

$$x + 1 = 3x - 7$$

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To solve for x, we will start by getting the x's together.

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

$$1 = x + 1 = \underbrace{3x - x}_{2x} - 7 = 2x - 7$$
$$1 = 2x - 7$$

Now, we Adding 7 to both sides

$$8 = 1 + 7 = 2x - 7 + 7 = 2x$$

Finally, we need to Divide by 2 to solve for x:

$$4 = \frac{8}{2} = \frac{2x}{2} = x$$

The solution to x + 1 = 3x - 7 is x = 4