So we are given an expression:

$$(x+7) \cdot (3+x) + (3+x) \cdot 2 + (x+7) \cdot (9+x)$$

Let's simplify it!

Let's reshuffle operands a bit

$$(x+7) \cdot (x+3) + (3+x) \cdot 2 + (x+7) \cdot (9+x)$$

Let's reshuffle operands a bit

$$(x+7) \cdot (x+3) + (x+3) \cdot 2 + (x+7) \cdot (9+x)$$

Let's reshuffle operands a bit

$$(x+7) \cdot (x+3) + 2 \cdot (x+3) + (x+7) \cdot (9+x)$$

Let's reshuffle operands a bit

$$(x+7) \cdot (x+3) + 2 \cdot (x+3) + (x+7) \cdot (x+9)$$

Let's reshuffle operands a bit

$$(x+7) \cdot (x+3) + (x+7) \cdot (x+9) + 2 \cdot (x+3)$$

So finaly:

$$(x+7) \cdot (x+3) + (x+7) \cdot (x+9) + 2 \cdot (x+3)$$