

Question

We have next equation:

$$LM + MN = LN$$

$$(4x - 12) + (x + 2) = 40$$

$$5x - 10 = 40$$

$$5x = 50$$

$$x = 10$$

And we can find the length of LM: $LM = 4 \cdot 10 - 12 = 40 - 12 = 28$. It's answer c).

Answer: c) 28.