

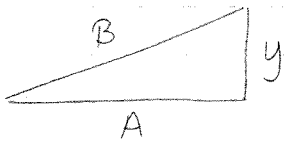
$$l_0 = 250 \text{ m}$$

$$\Delta T = 20^\circ \text{C}$$

$$\alpha_{\text{co}} = 12 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$$

$$\begin{aligned}\Delta l &= \alpha \cdot l_0 \cdot \Delta T \\ &= (12 \times 10^{-6} \text{ } ^\circ\text{C}^{-1})(250 \text{ m})(20^\circ \text{C}) \\ &= .06 \text{ m}\end{aligned}$$

$$\begin{aligned}l &= l_0 + \Delta l \\ &= 250 \text{ m} + .06 \text{ m} \\ &= 250.06 \text{ m}\end{aligned}$$



$$\text{Side A} = \frac{250 \text{ m}}{2} = 125 \text{ m}$$

$$\text{Side B} = \frac{250.06 \text{ m}}{2} = 125.03 \text{ m}$$

$$A^2 + y^2 = B^2$$

$$(125 \text{ m})^2 + y^2 = (125.03 \text{ m})^2$$

$$y = 2.74 \text{ m}$$