

Physics



Linear expansion – problems and solutions

by [Alexander San Lohat](#)

1. A steel is 40 cm long at 20 °C. The coefficient of [linear expansion](#) for steel is $12 \times 10^{-6} \text{ (}^\circ\text{C)}^{-1}$. The increase in length and the final length when it is at 70 °C will be...

Known:

The change in temperature (ΔT) = $70^\circ\text{C} - 20^\circ\text{C} = 50^\circ\text{C}$

The original length (L_1) = 40 cm

Coefficient of linear expansion for steel (α) = $12 \times 10^{-6} \text{ (}^\circ\text{C)}^{-1}$

Wanted: The change in length (ΔL) and the final length (L_2)



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