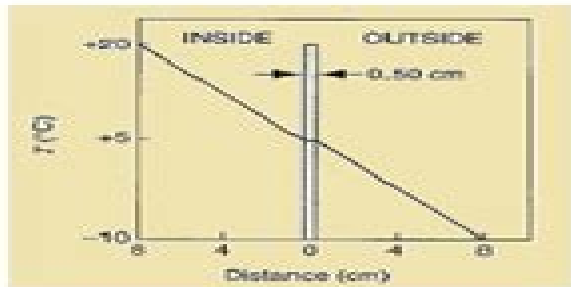


Solved Examples on Heat Transfer:-

Question 1:-

An idealized representation of the air temperature as a function of distance from a single-pane window on a calm, winter day is shown in below figure. The window dimensions are 60 cm × 60 cm × 0.50 cm. (a) At what rate does heat flow out through the window? (Hint: The temperature drop across the glass is very small.) (b) Estimate the difference in temperature between the inner and outer glass surfaces.



Concept:-

The rate H at which heat is transferred through the slab is,

- (a) directly proportional to the area (A) available.
- (b) inversely proportional to the thickness of the slab Δx .
- (c) directly proportional to the temperature difference ΔT .

$$\text{So, } H = kA \Delta T / \Delta x$$

Here, k is the proportionality constant and is called thermal conductivity of the material.

From the equation $H = kA \Delta T / \Delta x$, the temperature difference ΔT will be,

$$\Delta T = H \Delta x / kA$$

The temperature gradient is defined as,

$$\text{Temperature gradient} = \Delta T / \Delta x$$

Solution:-

(a) To find out the rate of heat flows out through the window, first we have to find out the temperature gradient both inside and outside the window.

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