

Initial temp (IT) = 10°C

Second temp (ST) = 20°C

Time from IT to ST = 5 mins = 300 sec

Actual Temp (AT) = 25°C

Soys' Temp (CT) = 24.9°C

2 Time (2T) = ??

if from IT to ST = $20^{\circ}\text{C} - 10^{\circ}\text{C} = 10^{\circ}\text{C}$

and it take 5mins to cover 10°C \therefore

$5^{\circ}\text{C} = \frac{1}{2}$ of 5mins

= $5^{\circ}\text{C} = 2.5$ mins (to move from 20°C to 25°C)

$25^{\circ}\text{C} = 2.5$ m

$\therefore 24.9^{\circ}\text{C} = ?$

$$= \frac{2.5 \times 24.9}{2.5} \quad (2.5 \text{ min} = 150 \text{ sec})$$

$$= \frac{150 \times 24.9}{2.5}$$

$$= 6 \times 24.9 = 149.4$$

$$\therefore 149.4 \div 60$$

$$= 2.49 = 2 \text{ mins } 49 \text{ sec}$$



