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Mechanical Engineering

1 T_1 of thermometer = 10°C

T_2 of thermometer = 20°C

Time taken = 5 minutes = 300 Secs

$D_T = 20 - 10 = 10^{\circ}\text{C}$

Find $T = 24.9^{\circ}\text{C}$ $DTC = 24.9 - 10 = 14.9^{\circ}\text{C}$
 14.9°C to θ

\log to 300×14.9

$\log = 4470$

$y = 447 \text{ Seconds}$

$y = 7 \text{ min } 27 \text{ Secs}$