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Question 1

T_1 of thermometer = 10°C

T_2 of temperature = 20°C

Time taken = 5 minutes = 300 seconds

Actual temperature = $(LT) = 24.9^\circ\text{C}$

2-times $(2T) = ??$

If from T_1 to $T_2 = 20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$
and it takes 5 mins to cover 10°C

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

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

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

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

$= \frac{2.5 \times 24.9}{23}$ [2.5 min = 150 secs]

$\frac{150 \times 24.9}{23} = 6 \times 24.9 = 149.4$

$\therefore \frac{149.4}{60}$

$= 249 \approx \underline{2 \text{ mins } 49 \text{ secs}}$

Question 2

- *) Command window
- clear
- clc
- close all

format short g

x = mdata (1:2:250, 1)

y = mdata (1:2:250, 2)

plot (x, y)

grid on

grid minor

command window

File Edit View Insert Tools Desktop Window Help

