

$$\theta_1 = 10^\circ\text{C} \quad dt = 5\text{m}$$

$$\theta_2 = 20^\circ\text{C}$$

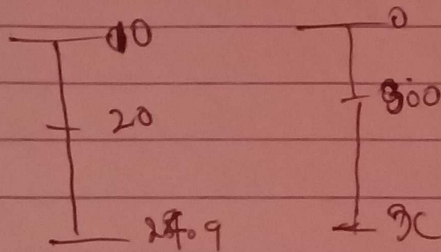
$$\theta_3 = ?$$

$$\theta_1 = 0\text{sec}$$

$$\theta_2 = 5\text{mins} \quad (5 \times 60) = 300\text{sec}$$

$$\theta_3 = ?$$

Using Interpolation



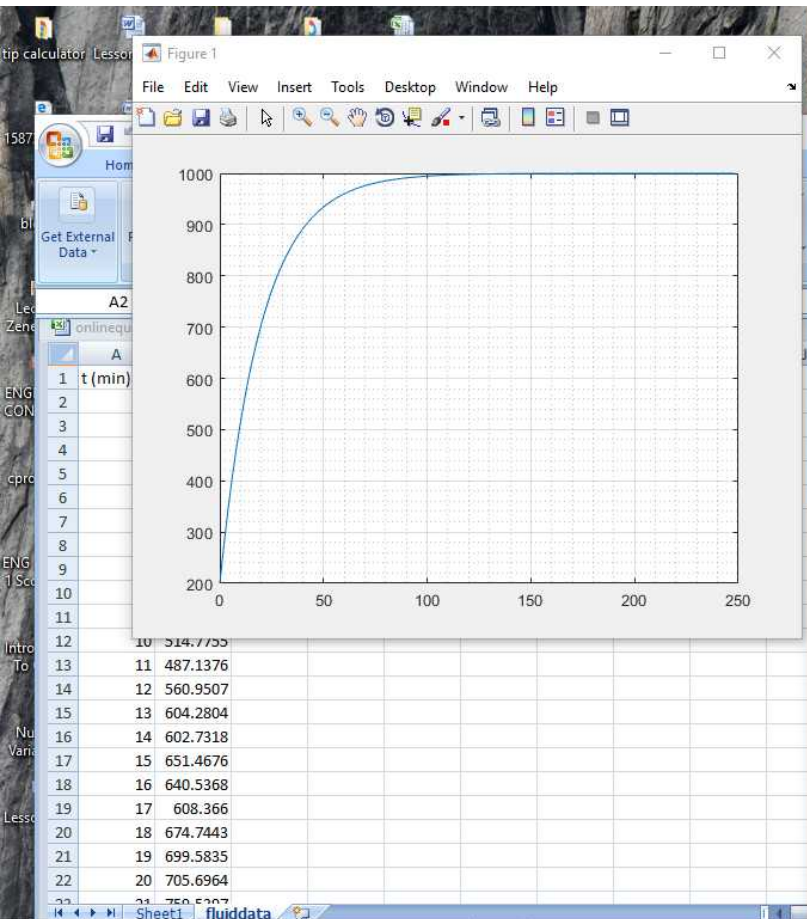
$$\frac{20 - 10}{24.9 - 10} = \frac{300 - 0}{x - 0}$$

$$\frac{10}{14.9} = \frac{300}{x}$$

$$x = \frac{300 \times 14.9}{10}$$

$$= \frac{4470}{60} \text{ secs} =$$

$$= 74.5 \text{ mins}$$



```

MATLAB R2018a
C:\Users\me\Desktop
Editor - C:\Users\me\Desktop\princehome.m
atthehouse.m | jessica_homework.m | princehome.m
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - mdata=xlread('onlinequizdata','fluiddata')
6 - x=mdata(1:2:250,1);
7 - y=mdata(1:2:250,2);
8 - plot(x,y)
9 - grid on
10 - grid minor

Command Window | Workspace
New to MATLAB? See resources for Getting Started.
238 999.99
239 1014.2
240 1000
241 1037.6
242 1000
243 954.47
244 1000
245 1000.3
246 1000
247 1045.3
248 1000
249 962.02
250 1000

fx >>
script Ln 4 Col 10

```