

## EE 202 - Mathematical Techniques in Electrical Engineering

### LAB1

\*\* Find solutions of the following questions in Matlab:

#### Question 1:

For a function, the following data is given. By using Linear Interpolation (First order polynomial interpolation by Newton's divided difference polynomial method) find  $y$  at  $x = 16$ .

<b>x</b>	<b>y</b>
0	0
10	227.04
15	362.78
20	517.35
22.5	602.97
30	901.67

#### Question 2:

For a function, the following data is given. By using Quadratic Interpolation (Second order polynomial interpolation by Newton's divided difference polynomial method) find  $y$  at  $x = 16$ .

<b>x</b>	<b>y</b>
0	0
10	227.04
15	362.78
20	517.35
22.5	602.97
30	901.67