EE202 Numerical Methods for Engineers
Laboratory Assignment: 2

** 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

x	*y*
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.

x	*y*
0	0
10	227.04
15	362.78
20	517.35
22.5	602.97
30	901.67

Question 3:

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

x	*y*
0	0
10	227.04
15	362.78
20	517.35
22.5	602.97
30	901.67