Quiz 3 (30-10-2018)	Матн 371,	Introduction	TO NUMERICAL	Computing
Prepared by Dr. Kareem Elgindy	-			

Student Name:	 Student ID:
Section #:	

Question 1. [3 marks] State the necessary equations to construct a natural cubic spline that passes through the points (1, 1), (3, 4), and (6, 3).

Question 2. [2 marks] Use the data shown in the table below to approximate the second derivative of some twice-differentiable function f at x = 2.1 using the centered-differencing formula.

\overline{x}	1.75	1.80	2.00	2.10	2.22	2.40
f(x)	0.004	0.124	0.457	0.557	0.589	0.601