

Group:A/B/C	No (in list)	Student ID	Full Name (Surname, Name)	HW
				04

Given a table of values of x and y

x	3	-2	-3	0	4	2
y	238	13	88	1	697	?

1. Construct the table of Newton Divided Difference.
2. Write the Newton polynomial that approximates the function $f(x) = y$.
3. Approximate $f(2)$ using the obtained Newton polynomial.

Note: All above works should be done by hand and scientific calculator rather than computer application or programming since this is just a review exercise for the upcoming midterm exam.