

Name _____

Date _____

Advanced Algebra

Unit 5- Assignment #9 Finite Differences in a table

Learning Target #3: I can determine if a relationship is quadratic, linear or cubic, by examining tables, and rates of change.

Method: use the finite differences method to tell if a table is a linear pattern, quadratic pattern, or cubic pattern.

We will then use regression to find an equation for the data.

Use the finite differences method to analyze the tables to see if they are linear, quadratic, cubic.

1)

X values	Y values
5	32
6	38
7	44
8	50
9	56
10	62
11	68

2)

X values	Y values
5	382
6	657
7	1040
8	1549
9	2202
10	3017
11	4012

3)

X values	Y values
5	69
6	96
7	127
8	162
9	201
10	244
11	291

4)

X values	Y values
5	50.5
6	62
7	74.5
8	88
9	102.5
10	118
11	134.5

5)

X values	Y values
5	245
6	424
7	675
8	1010
9	1441
10	1980
11	2639