

1) Use first differences to determine if relation is linear (L) or non-linear (NL). Determine the equation for the relation.

x	y
0	8
1	10
2	12
3	14

x	y
1	-2
2	4
3	10
4	16

x	y
0	-1
1	0
2	3
3	8

x	y
1	14
2	10
3	6
4	2

_____ (L or NL)

_____ (Equation)

Graph each of the following relations. Use a table of values where necessary.

a) $y = x^2 - 5$

b) $y = 2x + 5$

c) $y = -x^2$

