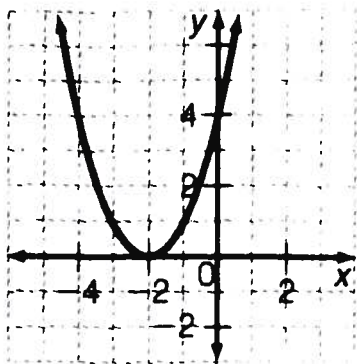_4)_ Provide the information for the graph.

Coordinates of the vertex: (_____, _____)

Equation of the axis of symmetry: _____

y-intercept(s): _____

Minimum or maximum value: _____

x-intercept(s): _____

_5)_ **a)** Complete the table. The first one has been done for you.

x	y	First Differences	Second Differences
−3	18		
−2	11	11 − 18 = −7	
−1	6	6 − 11 = −5	−5 − (−7) = _____
0	3		
1	2		
2	3		
3	6		

b) This data forms a _____ relation because _____.

c) Based on the values you determined for the table, what would the shape of this graph be? Explain why.

_____

_____.

_6)_ This graph shows a quadratic relation.
a) Make a table of values for the graph.

time (s)	height (m)
0	
3	
5	
6	
8	
10	
13	
15	
20	