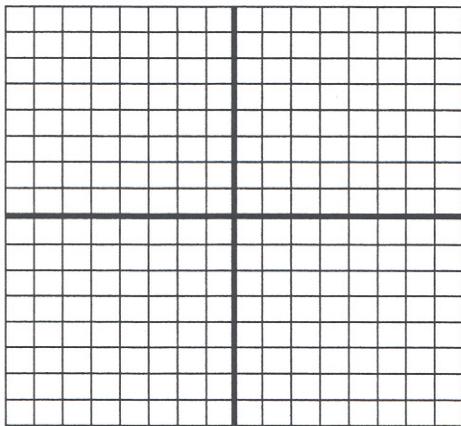


Activity 2: Investigating the Role of c

Sketch a graph of the following using a graphing calculator. Your observations should include some table values.

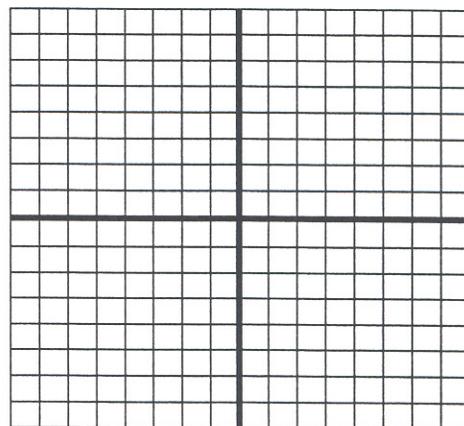
1. $y = x^2$, $y = x^2 + 2$, $y = x^2 + 3$

Observations:



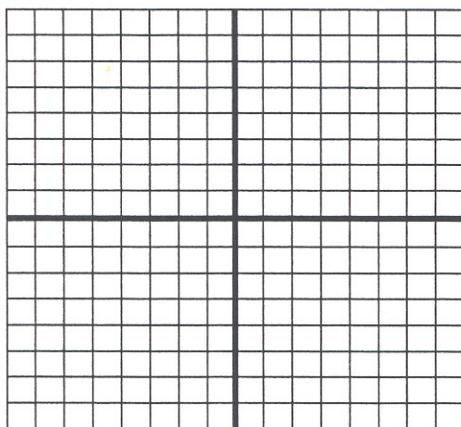
2. $y = x^2 - 0.5$, $y = x^2 - 1$

Observations:



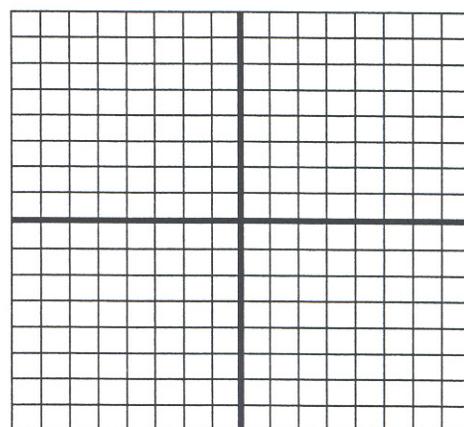
3. $y = x^2 + 1.5$, $y = x^2 - 2.5$

Observations:



4. $y = x^2 + 15$, $y = x^2 - 200$

Observations:



5. In general, what effects do different values of c have on the graph of $y = x^2 + c$?