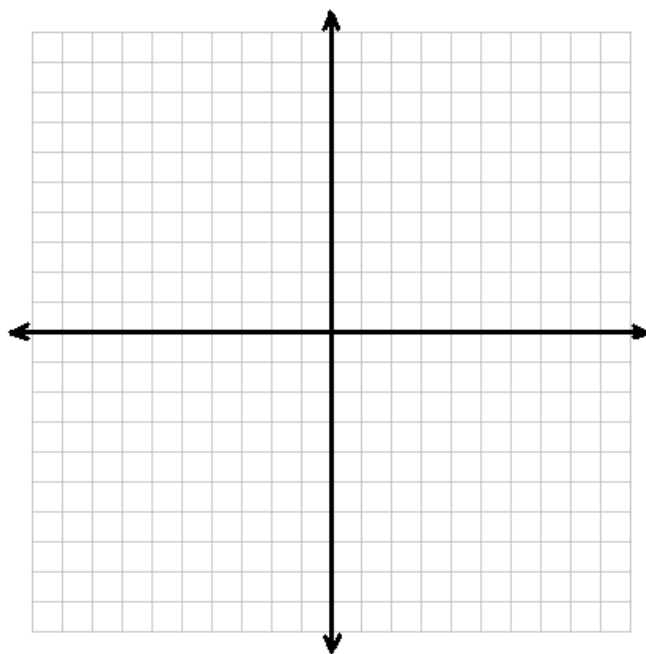# 5.2 – Comparing Linear, Quadratic, and Other Functions

Consider the following 3 relations.

1. $y = 2x - 5$
2. $y = x^2 - 5$
3. $y = 2^x - 5$

Complete TOVs, graph the resulting curves, and determine first and second differences.
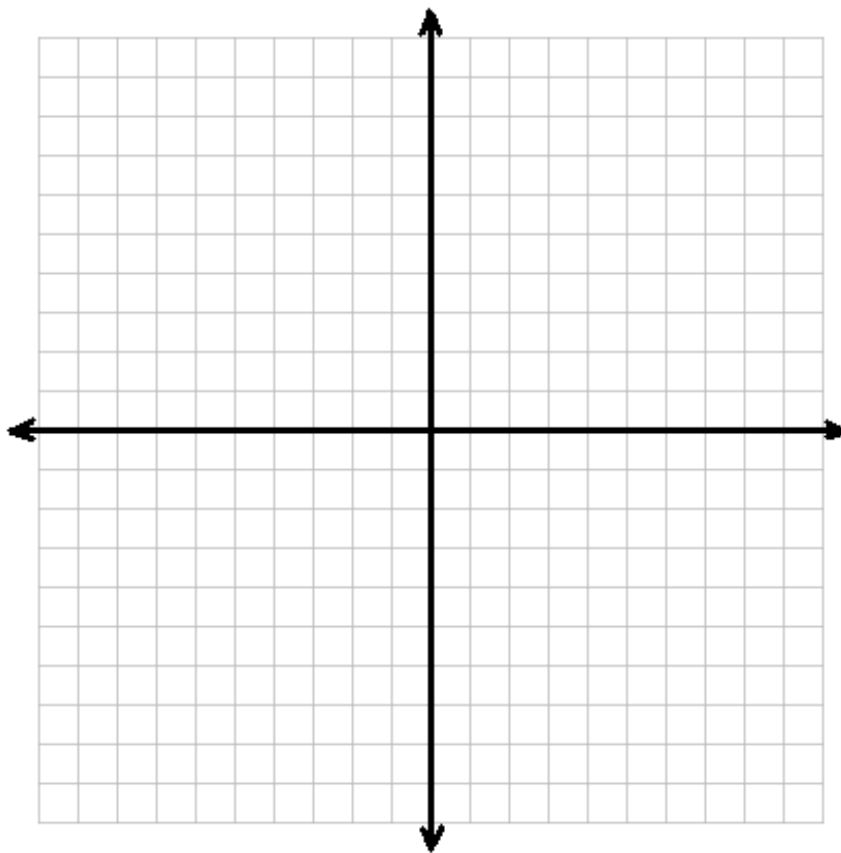
1. $y = 2x - 5$

x	f(x)	First Differences	Second Differences
-3			
-2			
-1			
0			
1			
2			
3			

2. $y = x^2 - 5$

x	f(x)	First Differences	Second Differences

3. $y = 2^x - 5$

x	f(x)	First Differences	Second Differences