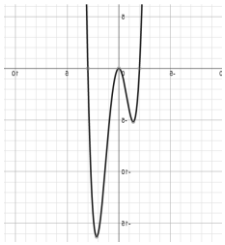
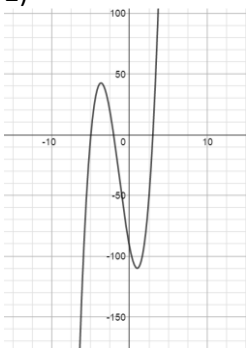
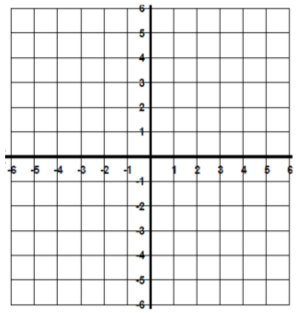
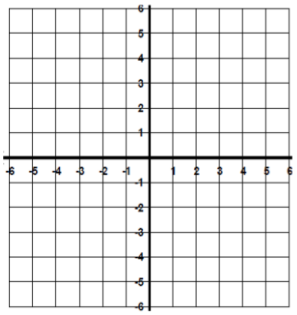
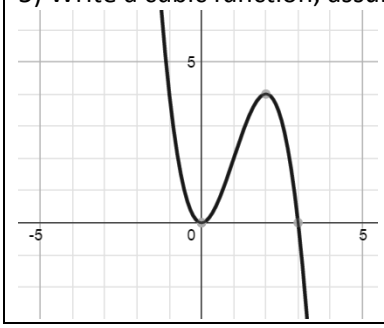
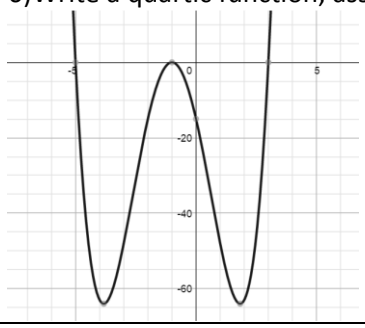
Module 5 Test Review:

Module 5.2-5.3: Identify whether the function has an odd or even degree and a positive or negative leading coefficient. Also State the number of turning points.

1) 	Even or odd degree: Positive or negative leading coefficient: Turning Points:	2) 	Even or odd degree: Positive or negative leading coefficient: Turning Points

Graph the function. State the end behavior, and x-intercepts.

3) $f(x) = -x(x-3)(x+3)$  End Behavior: X-Intercepts Above x- axis: Below x-axis:	4) $f(x) = -(x+4)^2\,(x-1)(x-6)$  End Behavior: X-Intercepts Above x- axis: Below x-axis:
5) Write a cubic function, assume an a value of 1 or -1 	6)Write a quartic function, assume an a value of 1 or -1 

Other Concepts:
Factoring
Relationship Between Factors and Zero's (e.g. (x+4) is a factor, -4 is the zero)
Zero's are also called _____, _____, and represent the _____, when graphing.
Distinct zero's mean unique zero's without the multiplicity
Total zero's have to be the same as the degree.