

Module 5.2 Practice

Date _____ Period _____

State the Following:**1) Domain, Range****2) End Behavior****3) X- intercepts****4) Values where the intercepts are tangent and/or cross the line .**

1) $f(x) = -(x - 2)(x - 1)(x + 1)$

2) $f(x) = x(x + 3)(x + 1)^2$

3) $f(x) = (x - 5)(x + 1)^2$

4) $f(x) = -x(x + 1)(x - 3)(x - 6)$

5) $f(x) = (x - 5)(x - 1)(x + 1)$

6) $f(x) = -x(x - 5)(x + 3)^2$

7) $f(x) = -(x - 1)^2(x - 3)$

8) $f(x) = x(x - 5)(x - 1)$

9) $f(x) = (x - 7)(x - 1)^2$

10) $f(x) = -(x + 8)(x + 3)(x + 1)(x - 4)$

Sketch and Graph the above functions. State the number of turns as well as the number of maximums/ minimums.

