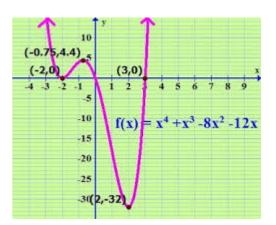
Chapter 2.3 Day 1

I can find the zeros, extrema and end behavior of a polynomial



Vocabulary:

Zeros: The solutions to the polynomial. (Where the graph crosses the x-axis)

Multiplicity: The number of times a given polynomial equation has a zero at a given point. (If the graph goes through the point it has an odd number of zeros, if it bounces it will have an even number of zeros.)

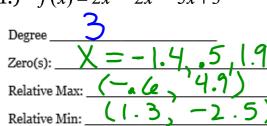
Extrema-

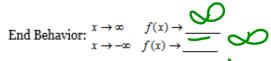
Relative max: The "highest" point(s) on the graph compared to the points around it.

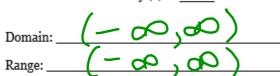
Relative min: The "lowest" point(s) on the graph complared to the points around it.

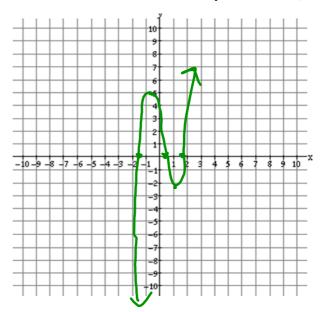
End behavior: The behavior of the graph as x approaches negative and positive infinity.

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









2.) $f(x) = -\frac{1}{4}x^4 + 2x^2 - 4$



