Test Emulation

define areas of incerease, decrease, concavity based on f(x) define areas of incerease, decrease, concavity based on f'(x)

given f'(x) determine the shape of critical points (including slope vertical line / cusp ones)

- sketch a rational
- \bullet sketch an irrational

determine asymptotes when given a function of the form $\frac{x^3...}{x^2...}$

use the second derivative test

determine the inflection points of a second derivative

be able to determine a b c and d in $ax^3 + bx^2 + cx + d$

draw a graph given information about zeros, where critical points are / aren't, where the graph is increasing / decreasing, concavity...