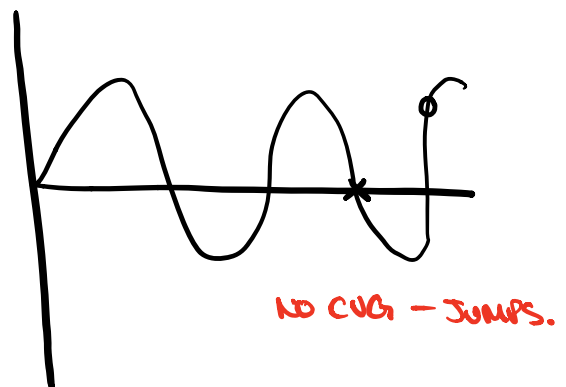
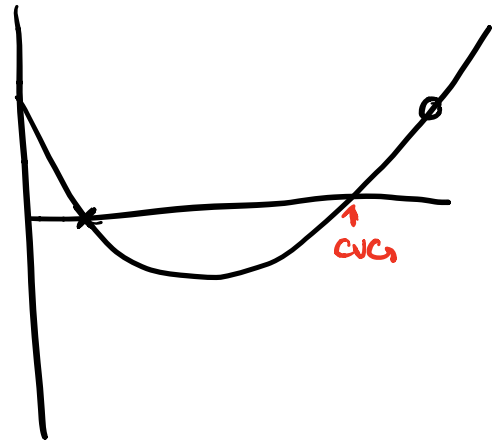
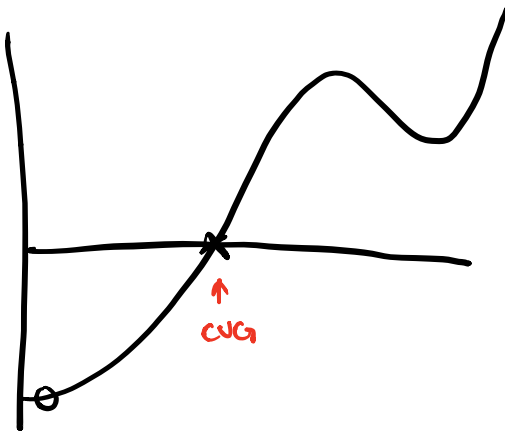
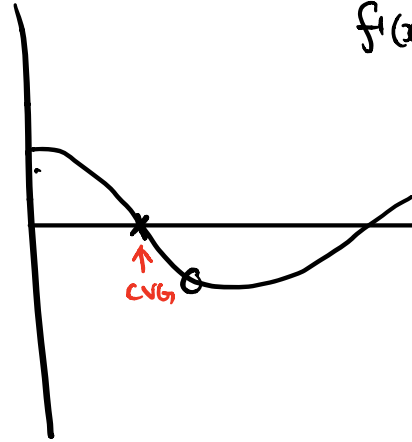
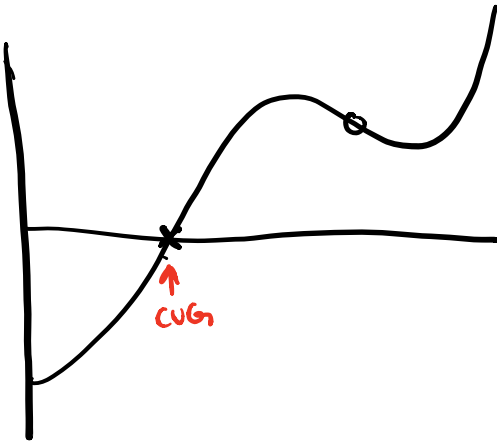


PROBLEM #1.

Which functions converge to the "x" from the starting point "o".

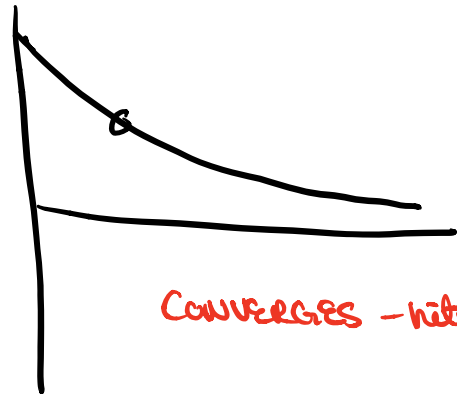
Newton-Raphson

$$x_{i+1} = x_i - \frac{f(x_i)}{f'(x_i)}$$

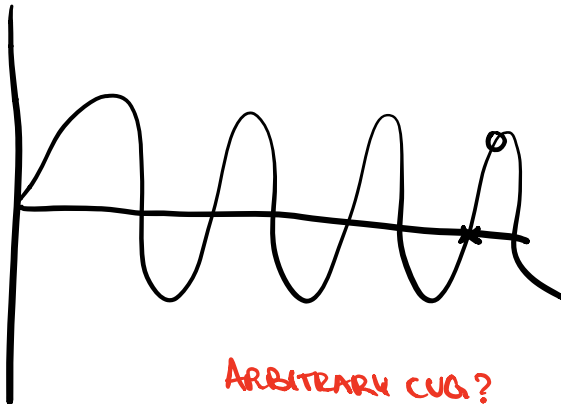




NO CUG - OSCILLATES.



CONVERGES - hits limit



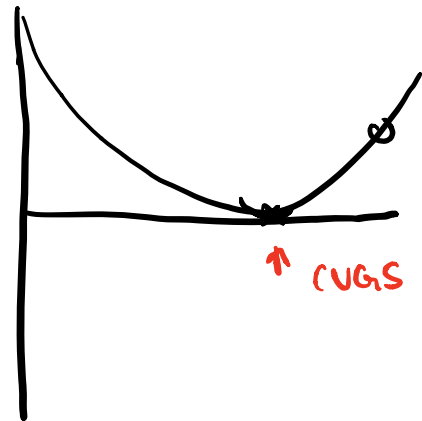
ARBITRARY CUG?

DING PONGS AROUND

THE UNIT CIRCLE

ω - DECREASING / INC

FROM INFINITY / INF.



↑ CUGS