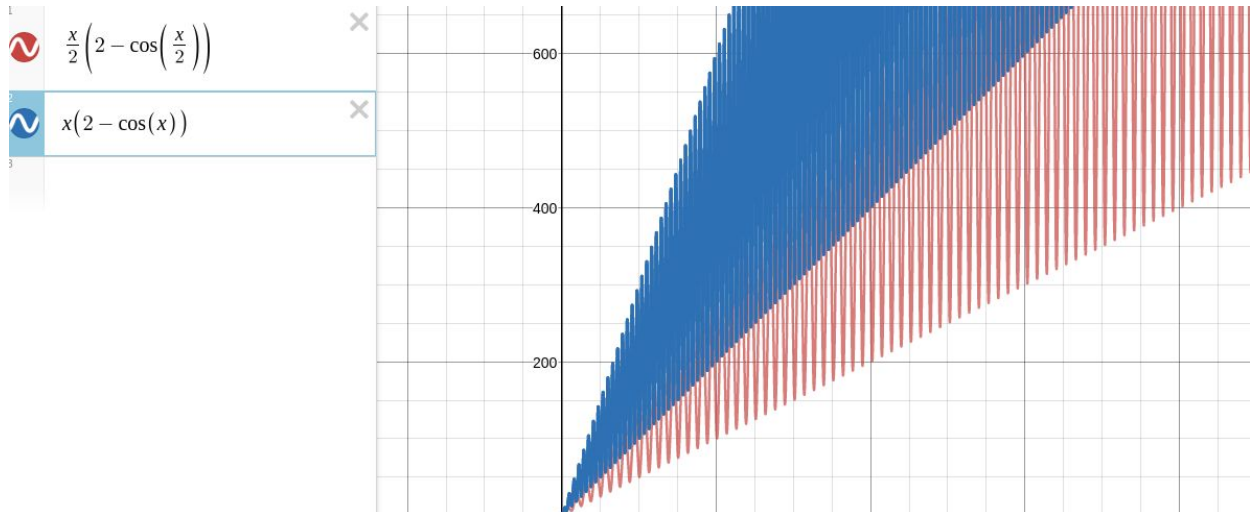


This graph is for the 3rd recursion, $(n/3) \log(n/3) \leq \frac{1}{3} (n \log n)$, $C = \frac{1}{3} < 1$



As for the 5th recursion;

As shown, both graphs intersect even when $c = 1$ so in order to get, $n/2(2 - \cos(n/2)) < C \cdot n(2 - \cos(n))$, C has to be greater than 1.

