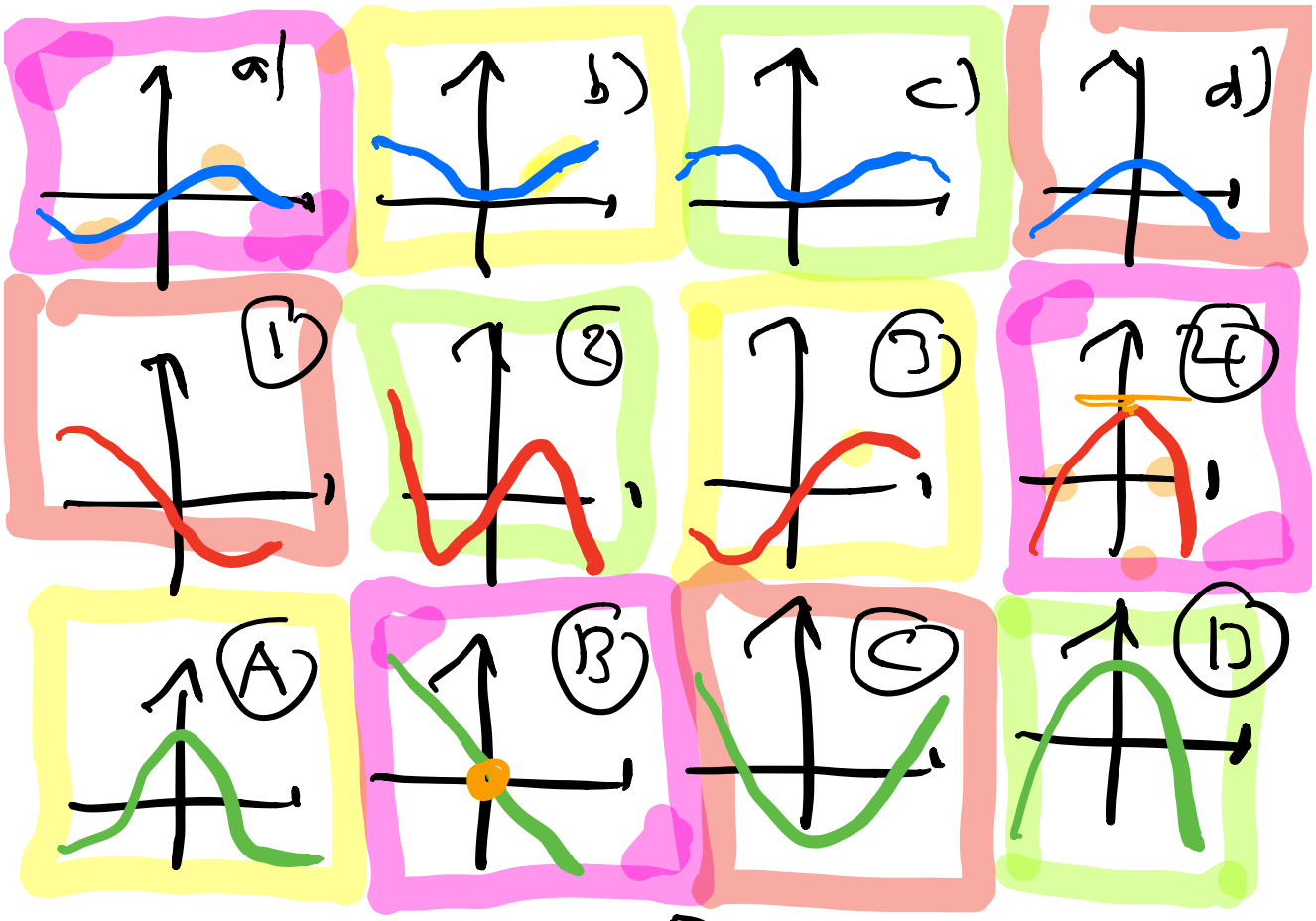


BINGO !

We used:

increasing $f \rightarrow f' > 0$

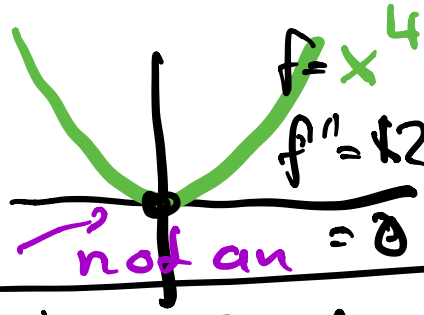
decreasing $f \rightarrow f' < 0$

maxima, minima. $\rightarrow$ horizontal tang. $\rightarrow f' = 0$

concave up $\rightarrow f'' > 0$

concave down $\rightarrow f'' < 0$

inflection point. $\rightarrow f'' = 0$



not an inflection point.

if f changes from concave up

to concave down, we speak of inflection points.