Let $f(x)$ be a given function. This flowchart is useful for solving problems that involve finding the max $/ \min$ of $f$, finding intervals where $f$ is increasing/decreasing/concave up/concave down, and finding inflection points of $f$.


If a question asks WHERE the extrema are, make sure to include $x$ values. If a question asks WHAT the extrema are, make sure to include $y$ values.

