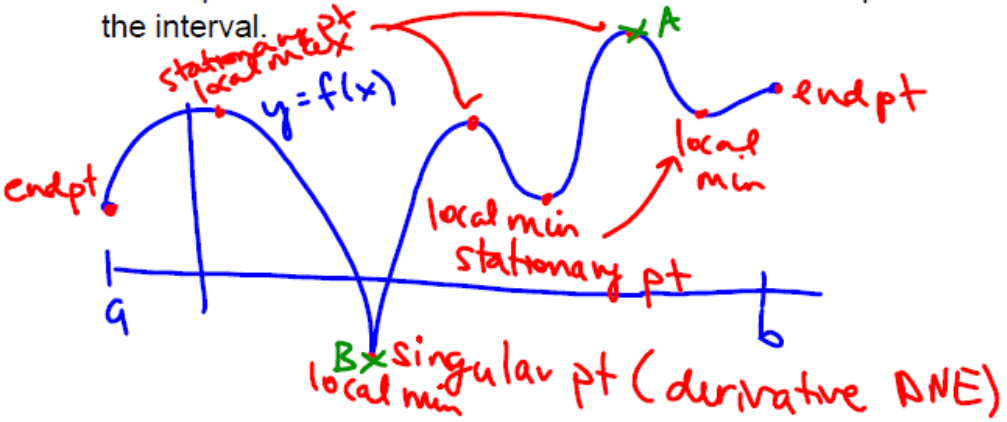
Global Minimum and Local Maximum … Set 4

Recall from Calculus I: (curves in 2-d)

1) Critical points (where $f'(x) = 0$ or DNE) are the candidates for where local min and max points can occur.

2) You can use the Second Derivative Test (SDT) to test whether a given critical point is a local min or max. SDT is not always conclusive.

3) Global max and min of a function on an interval can occur at a critical point in the interior of the interval or at the endpoints of the interval.



global max occurs at pt A
global min " " " B } on [a, b]