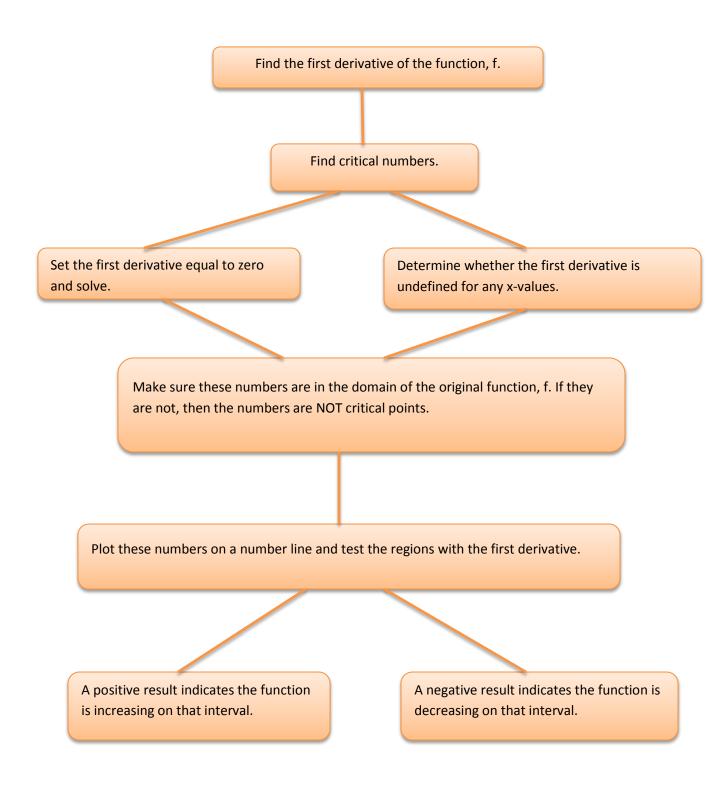
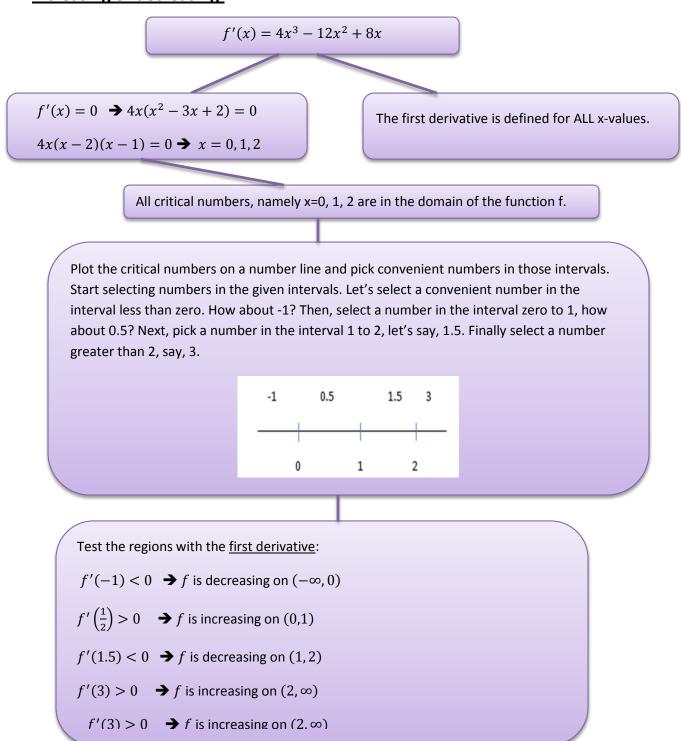
Intervals of Increasing & Decreasing



Example 1: Determine intervals on which function $f(x) = x^4 - 4x^3 + 4x^2$ is increasing or decreasing.



f is increasing on $(0,1) \cup (2,\infty)$

f is decreasing on $(-\infty, 0) \cup (1,2)$

Example 2: Determine the intervals on which the function $x\sqrt{x+3}$ is increasing or decreasing.

