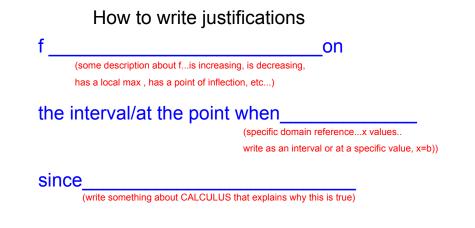
HW: From today's graphing packet:

#1, 4, 7, 20 (note that 20 is going the other direction)

DO NOW: Checkin on interpreting the graph of the derivative

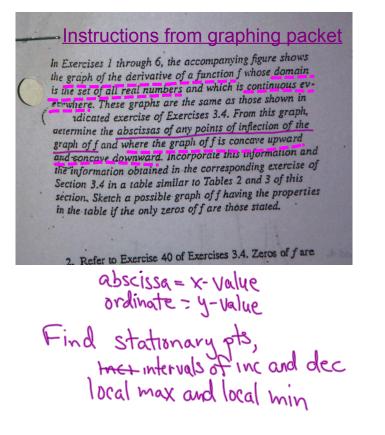
( we will look at the next slide before you do the checkin)

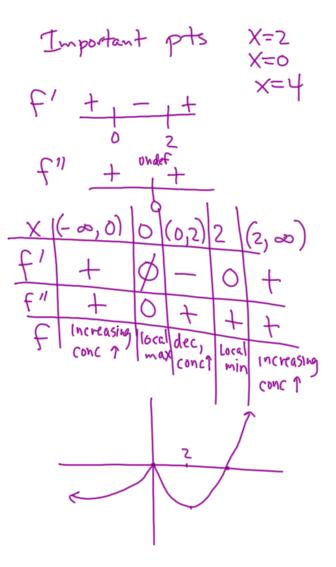


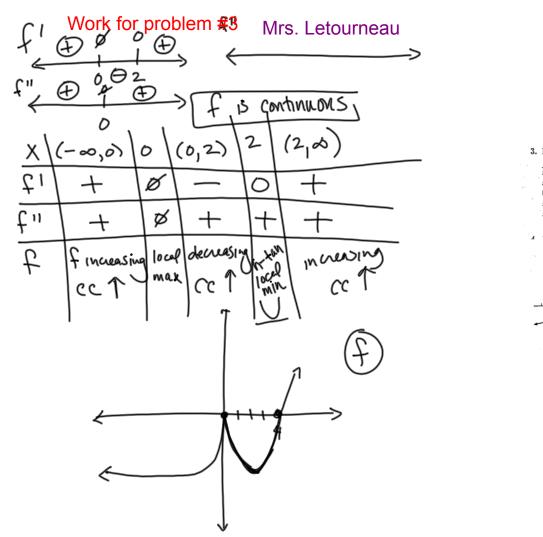
at those/that values/value.

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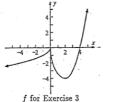
Sketching Graphs based on Derivatives







3. Ex. 3.4.41. Zeros of f are 0 and 4. graph is/has a f''(x)f is/has a f'(x)concave upward increasing x < 0relative maximum vertical tangent x = 0d.n.e d.n.e decreasing concave upward 0 < x < 2relative minimum concave upward x = 2concave upward increasing x > 2f' for Exercise 3 0 4 40 77 --1 and 1



because there was an infinite discontinuity in f', there is a cusp in f (abrupt change in slope from +infinity to -infinity)

Because there is no change in concavity, there is no inflection point in this graph of f.

Sketching Graphs based on Derivatives

**Sketching Graphs based on Derivatives** 

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