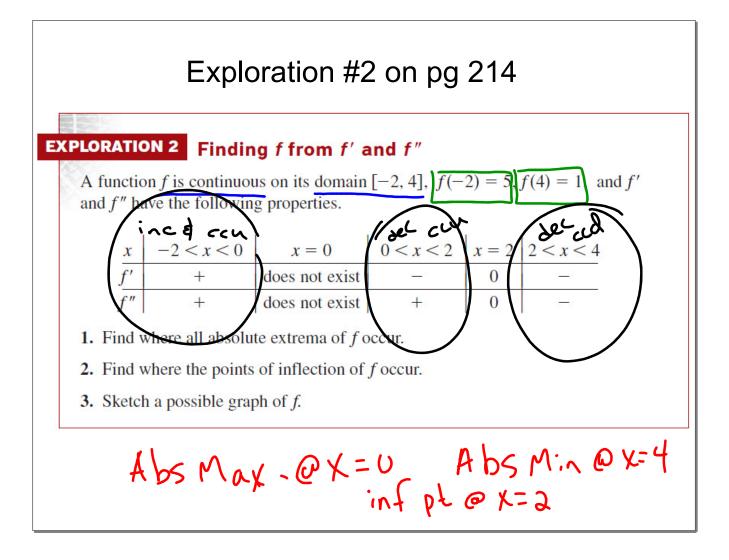
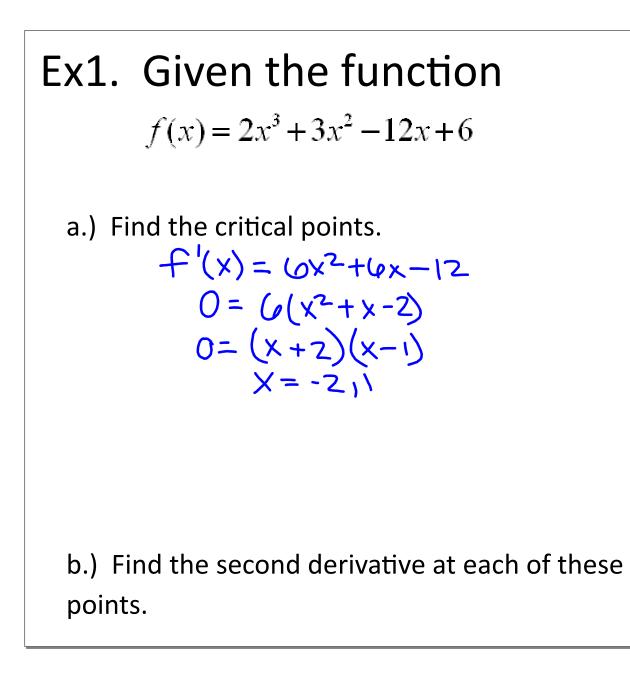


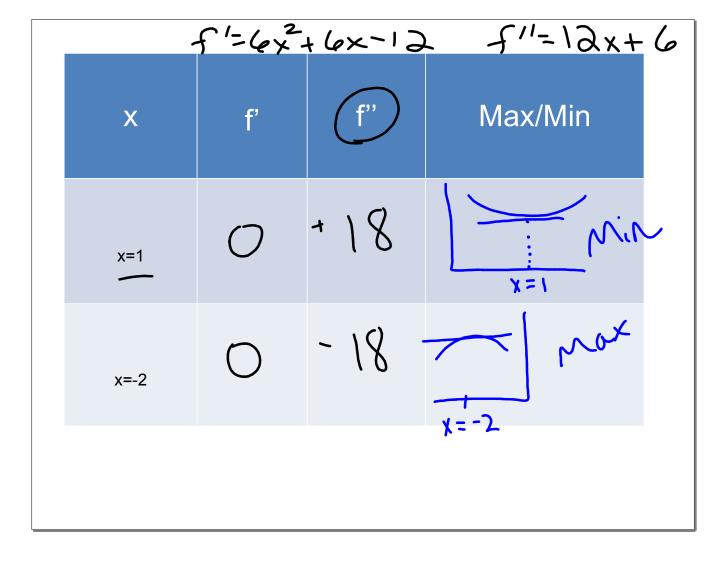
4-3 day 3 The Second Derivative Test for Local Extrema

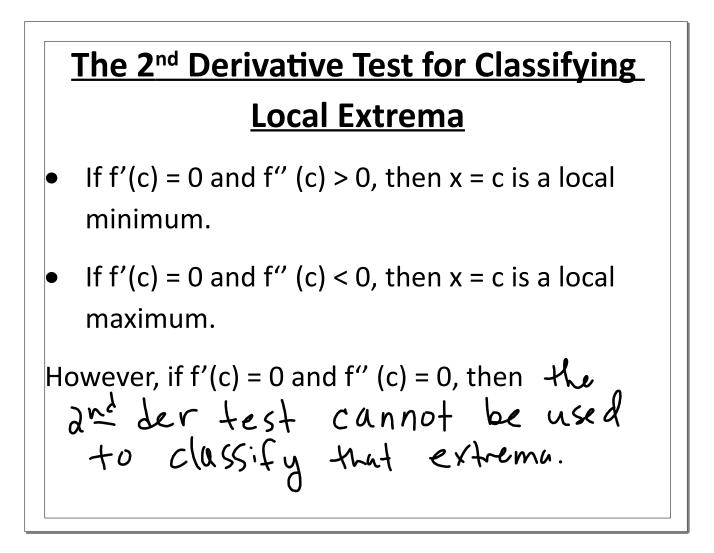
Learning Objectives:

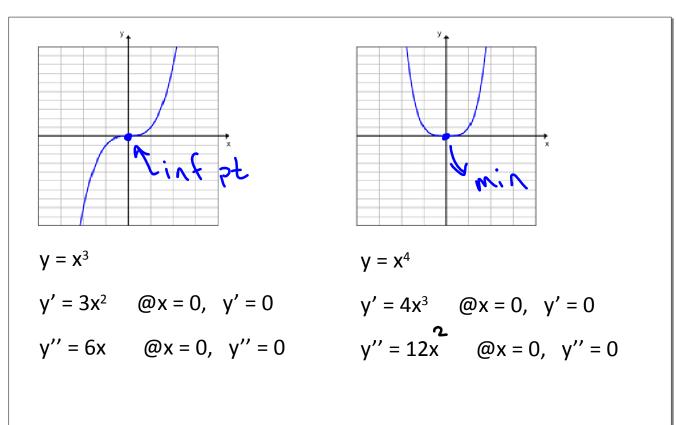
I can use the second derivative test to classify local extrema of a function.











Inflection Point

Minimum

If f'(c) = 0 and f''(c) = 0, the Second Derivative Test is inconclusive.

Ex2. Find and classify the extrema $f(x) = 2\cos(x) + \cos(2x)$ on $0 \le x \le 2\pi$

<u>Homework</u>

pg 215 # 25-30, 33, 36-40, 48, 51, 52, 55-59