Math 141 - Calculus Name_____
Section 4.4 Video Worksheet

Concavity

The graph of a differentiable function

Second derivative test for concavity

A point where the graph of the function has a tangent line and where the concavity chages is a

If $f'(c)=0$ and $f''(c)<0$ then

If $f'(c)=0$ and $f''(c)>0$ then

If $f'(c)=0$ and $f''(c)=0$ then

Graphing y=f(x)

1.

2.

3.

4.

5.

6.

7.

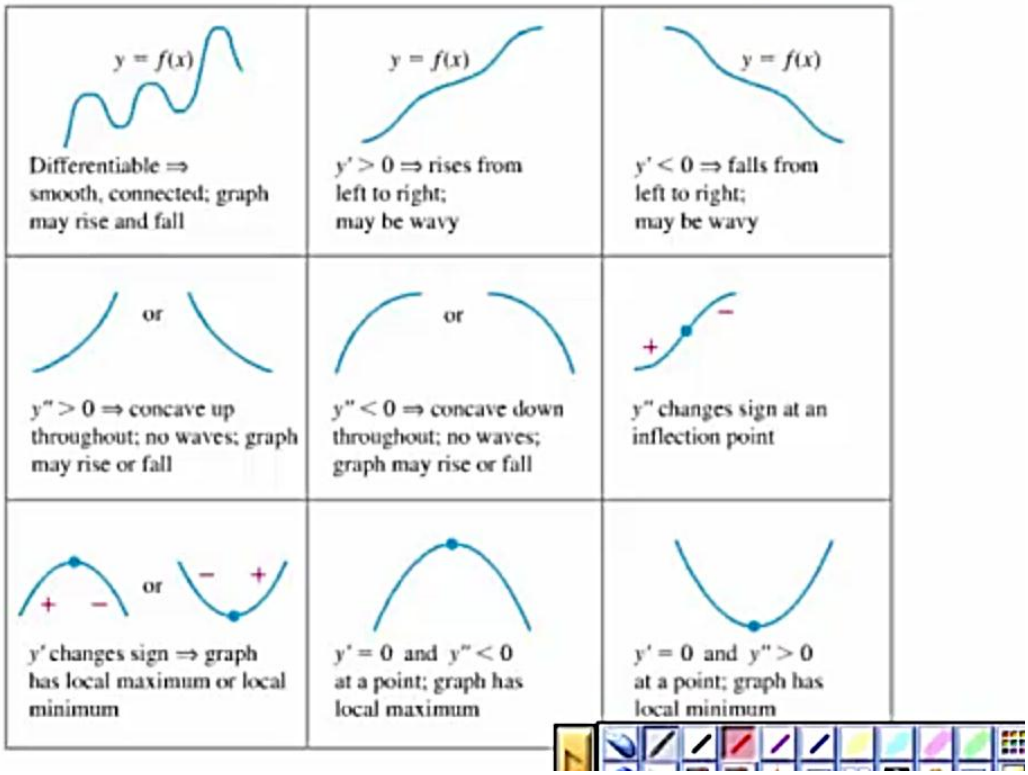
8.

9.

Math 141 - Calculus Name_____

Section 4.4 Video Worksheet

Behaviours of some graphs



You will not have to write down all the examples given in the video, however please at least try to sketch the graph of the given function according to the steps followed for the examples in the videos.

Try It: $f'(x) = x^4 - 4x^3 + 10$