Calculus: Homework
12/18-12/22

due: Tuesday: read pg. 282

1. Graph $y = x^4 - 6x^2 + 3$ by using a table of values which includes y, y', and y".
2. A function f is continuous on $[-3,3]$ such that $f(-3) = 4$ and $f(3) = 1$. The functions f' and f" have the following properties:

x	$-3 < x < -1$	$x = -1$	$-1 < x < 1$	$x = 1$	$1 < x < 3$
f'(x)	+	DNE	-	0	-
f''(x)	+	DNE	+	0	-

   a. What are the x-coordinates of all absolute maximum and minimum points of f on $[-3,3]$?
   b. What are the x-coordinates of all points of inflection of f on $[-3,3]$?
   c. Sketch a graph that satisfies the given properties of f.

Wednesday: review sheet

Thursday: review sheet

on: Friday: test