Curve Sketching

See "Guidelines for Analyzing the Graph of a Function" on page 209

Let us do the Big Blue handout
[If you are absent, then the handout is in our bin.]

Some more problems to consider:

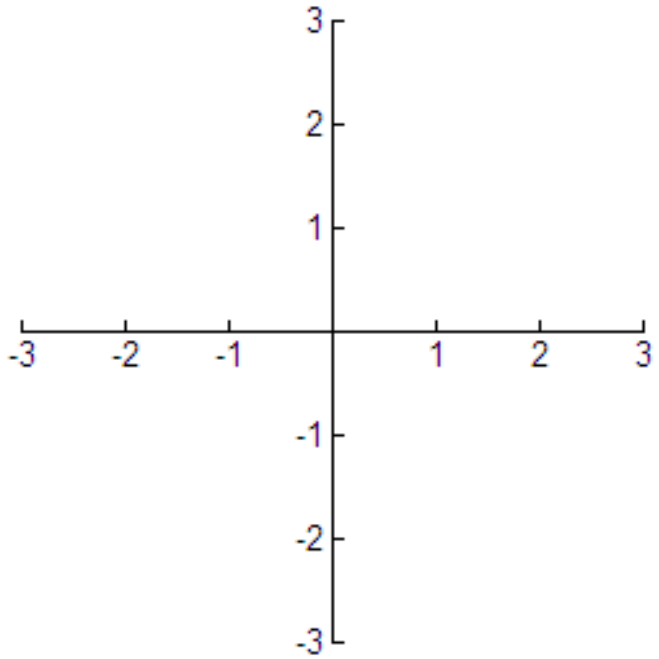
Let f be a function that is even and continuous on the closed interval $[-3,3]$. The function f and its derivatives have the properties indicated in the table below:

x	0	$0<x<1$	1	$1<x<2$	2	$2<x<3$
$f(x)$	1	positive	0	neg	-1	neg
$f'(x)$	0	negative	0	neg	und	pos
$f''(x)$	0	negative	0	neg	und	pos

(a) Find the x- coordinate of each point at which f attains an extreme value. Justify your answer.

(b) Find the x- coordinate of each point of inflection on the graph of f. Justify your answer.

(c) Sketch the graph



Homework: page 215 #7, 19, 23, 25, 31[don't be afraid to use your TI to find critical numbers[values] or possible points of inflection