Here is a list of some concepts for **Exam 2** which may be somewhat different from the problems in the homework. You should be sure that you understand each of these concept problems.

For Exam 2:

1. Be able to explain the first derivative test and how it is able to help you determine relative extrema.

2. The following graph of a function $y = f(x)$ is concave up. Explain why the second derivative of the function is positive. It is not sufficient just to say "because the graph is concave up."