***Home work ( first derivative test ) 12-A***

***Problem:***  
For each of the following functions,

* determine the intervals on which the function is increasing or decreasing
* determine the local maximums and local minimums.

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| http://archives.math.utk.edu/visual.calculus/3/graphing.5/f1.gif | [http://archives.math.utk.edu/visual.calculus/gifs/solution.gif](javascript:openWin2('1.html')) |
| http://archives.math.utk.edu/visual.calculus/3/graphing.5/f2.gif | [http://archives.math.utk.edu/visual.calculus/gifs/solution.gif](javascript:openWin2('2.html')) |
| http://archives.math.utk.edu/visual.calculus/3/graphing.5/f3.gif | [http://archives.math.utk.edu/visual.calculus/gifs/solution.gif](javascript:openWin2('3.html')) |

http://archives.math.utk.edu/visual.calculus/3/graphing.5/index.html

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http://online.math.uh.edu/Math1431/HelpFiles/Section4.3/LocExtPract/LocExtPract.html

You can check your answer by using (websites)