

Max and min

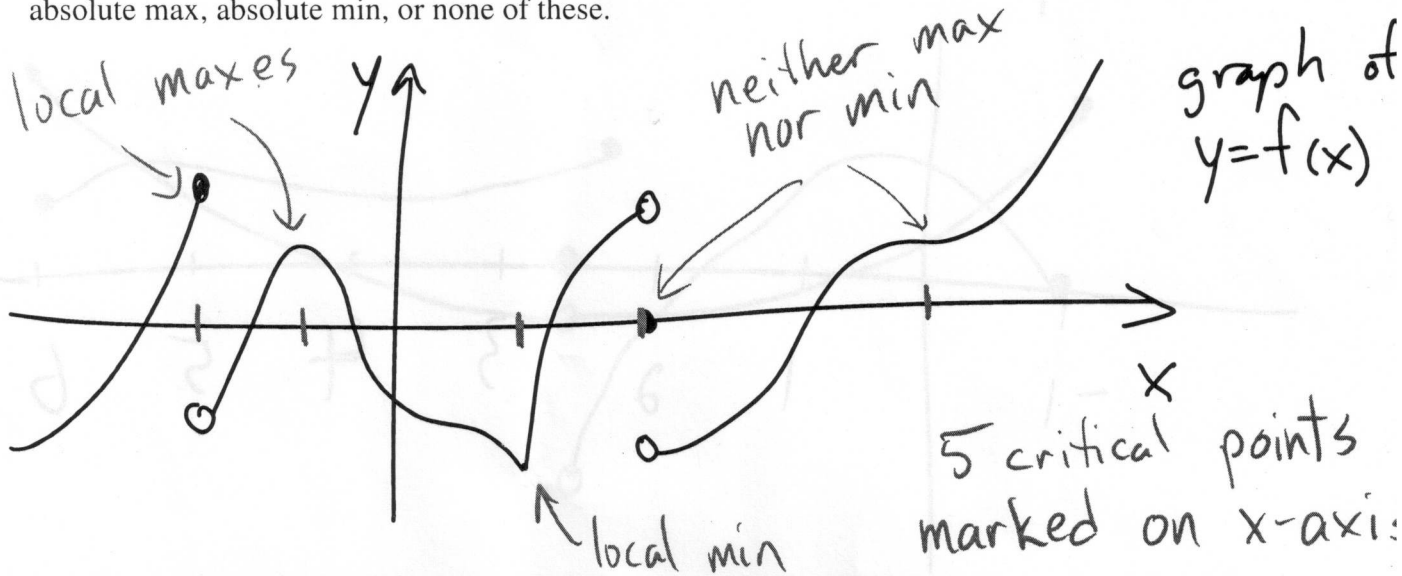
Math 104 Section 106 - Oct 2012

Group Names and Student Numbers (minimum of two names required for participation to be recorded):

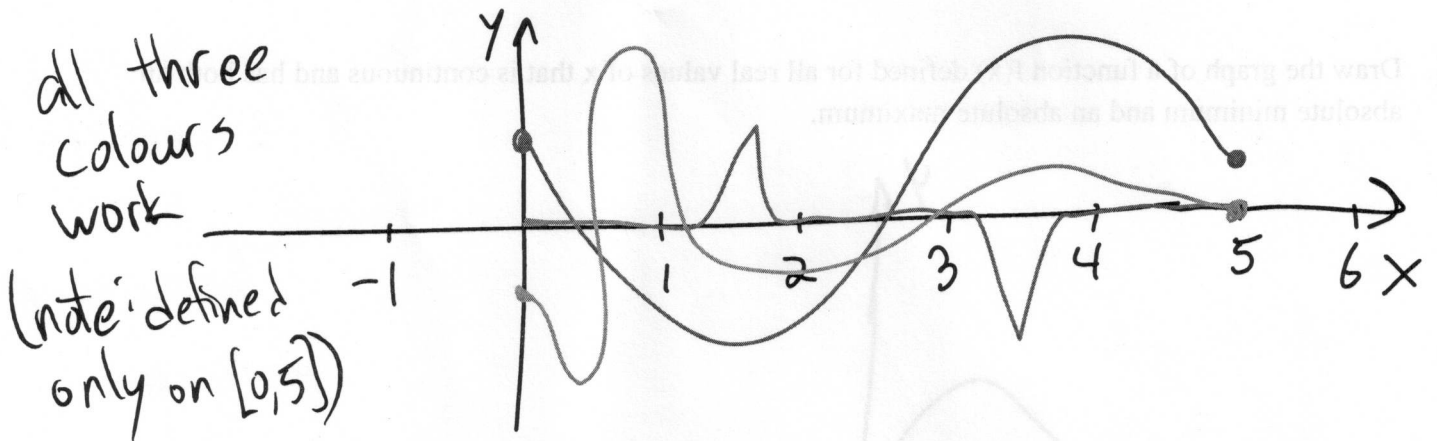
1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

Solutions

1. Identify each of the critical points on the graph below and classify them as local max, local min, absolute max, absolute min, or none of these.



2. Draw the graph of a function  $f(x)$  defined only on  $[0,5]$  that is continuous and where both the absolute max and absolute min occur at points that are not  $x=0$  nor  $x=5$  (i.e. not at the endpoints).



3. Draw the graph of a function  $f(x)$  defined for all real values of  $x$  that is continuous and has an absolute minimum and at least one local maximum, but no absolute maximum.

