

## PRE-CLASS ACTIVITY

Math 1110 - Instructor: Itamar Oliveira

NAME: \_\_\_\_\_  
due next class

1. Read the definition of derivative in section 2.1 and write down how it relates to the rate of change of a function.
2. Read the subsection *When does a function not have a derivative at a point?* The pictures will help you understand it.
3. Does  $f(x) = \sin(1/x^2)$  have a derivative at  $x = 0$ ?