

Monday, August 27, 2012 (Day 1)

MATH 1350 Survey of Calculus

Things you can call me:

Mark ← my favorite

Mr. Barsamian

Dr. Barsamian

~~Bub~~

e-mail formalities

"Sender" should show your real name

Old fashioned greeting ("Hi Mark", etc)

Old fashioned closing ("-Bubba", etc)

Old fashioned writing (~~x~~ you)

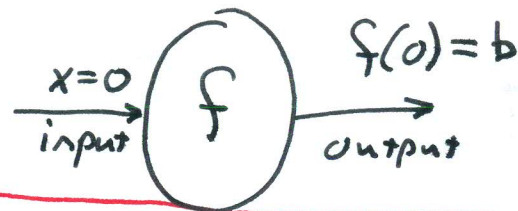
# Chapter 3 Limits

See Reference 4 in Course Packet

(1) graph has y intercept  
at  $(0, b)$



$$f(0) = b$$



(2) x-intercept at  $(a, 0)$



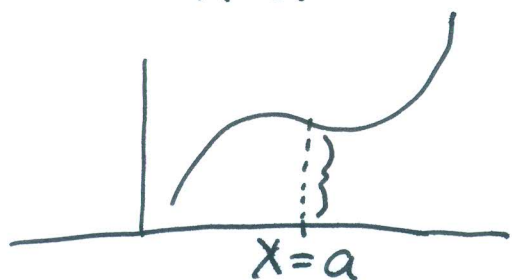
$$f(a) = 0$$



(3) height of graph  
at  $x=a$



$$f(a)$$



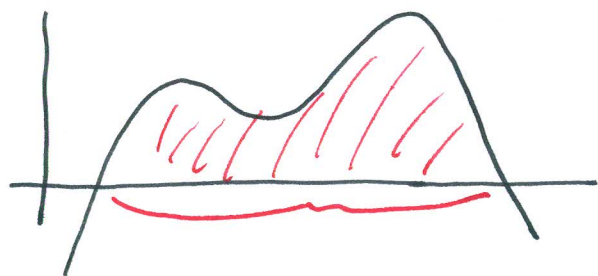
(4) Does  $y$ -value on graph even exist at  $x=a$ ?

$\longleftrightarrow$  Does  $f(a)$  exist?

(5) Region of graph that remains above the  $x$ -axis

$\longleftrightarrow$  Interval of  $x$ -values such that

$$f(x) > 0$$



(6) yada yada yada

$\longleftrightarrow$

$$f(x) < 0$$

(7)  
⋮  
(16)

All of these have to do with trends in graph, not with behavior at individual  $x$ -values. We need calculus to describe these things.

