

Reading Assignment for Section 2.5

MATH 130: Calculus I, Sections 2 and 3
Fall Semester 2013

Follow the general guidelines for the Reading Assignment (the salmon colored handout). Be sure to include and label all four standard parts a,b,c,d of the Reading Assignment in what you hand in. Be sure to **staple** together each assignment, and include your **name** and which **section** of calculus you are in at the top. Neatness is appreciated!!!

Due: at the beginning of class on Friday, September 20th

Read:

Section 2.5, pages 84-91

Remember that your answers should include complete sentences for every question.

Reading Questions for part (a):

1. Describe what $\lim_{x \rightarrow -\infty} f(x) = 2$ means without using the words “horizontal asymptote”.
2. (a) What is a horizontal asymptote? (b) Is it possible to cross a horizontal asymptote? If so, how many times? If not, why not?
3. In Example 3 on page 88, a technique is described for dealing with limits at infinity of rational functions. (Actually, you can apply this same idea to other functions that are not rational too!)
(a) Describe the technique. (b) Why is it “effective”?

Remember parts b-d on the salmon handout!