

## Reading Assignment for Section 2.4

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 Monday, September 16th

Read:

Section 2.4, pages 76-81

Remember that your answers should include complete sentences.

Reading Questions for part (a):

1. Use a graph to explain the meaning of  $\lim_{x \rightarrow a} f(x) = \infty$ .
2. What is a vertical asymptote? Does what the book say correspond to your past knowledge of vertical asymptotes?
3. Consider the function  $H(x) = \frac{f(x)}{g(x)}$  with  $g(a) = 0$ . Does  $H$  necessarily have a vertical asymptote at  $x = a$ ? Explain your reasoning.

Remember parts b-d on the salmon handout!