

Reading Assignment for Section 2.3

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 13th

Read:

Section 2.3, pages 65-72

Remember that your answers should include complete sentences.

Reading Questions for part (a):

1. For what kinds of functions $f(x)$ may we evaluate the limit by just plugging a into the function, that is, for what functions is $\lim_{x \rightarrow a} f(x) = f(a)$? Explain carefully. Check out the theorems! Why can we do this?
2. There are two tricks that are shown in this section for dealing with limits of functions for which we cannot just plug in a or repeatedly apply limit laws. What are they? In exercises 60 and 61 on page 74, two other tricks are needed. (By tricks, we really mean ways to validly manipulate functions.) Without actually doing the problems, can you describe what tricks you would use?
3. Briefly describe the Squeeze Theorem. You may include the statement of the theorem from the text, but also describe briefly what it means in your own words. Feel free to include a diagram.

Remember parts b-d on the salmon handout!