

# Reading Assignment for Section 3.7

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 pages if you have more than one, and include your **name** and which **section** of calculus you are in at the top of the page. Neatness is appreciated!!!

**Due:** at the beginning of class on Friday, October 18th

Read:

Section 3.7, pages 183-188: Implicit Differentiation!

Notes:

This reading helps us figure out how to find the rate of change of one variable in terms of another without having a function that explicitly relates the two variables! Make sure that you address all parts of each question.

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

Reading Questions for part (a):

1. What is the difference between an equation that explicitly relates two variables to one another and an equation that implicitly relates two variables? Give two examples in explicit form and two in implicit form.
2. What are some of the reasons why we might want or need to use implicit differentiation?

Remember parts b-d on the salmon handout!