

**Office Hours (LN 301/301.5):** M 3:30-4:30, Tu 11:00-1:00, W 12:15-1:15, F 1:30-2:30. Other times by appointment.

**Math Intern:** Sun through Thurs: 3:00-6:00, 7:00-10:00pm. **Website:** Use the links at the course homepage on

**Canvas** or go to my course Webpage: <http://math.hws.edu/~mitchell/Math130F16/index.html>.

### Reading, Practice, and Review

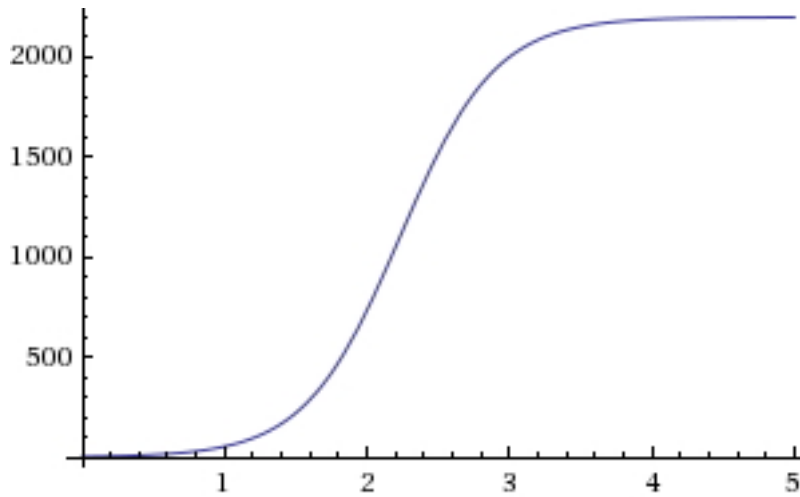
Note: If you look at any course assignment online at the website above, all of the links to webpages are active (clickable). There's quite a bit to review and read. Why not take some time **now**, before work for your other classes really kicks in, to review, especially trig, logs, exponentials, and inverses.

1. Read the course syllabus, especially the section on **Assessment**. For next time, read Chapter 2.1 and begin Chapter 2.2. (Remember, Chapter 1 is review material.) Problems in the **Practice** section of the homework assignment, such as #2 and #3 below, are not collected. Nonetheless, you might want to keep the answers in a notebook or loose-leaf binder for future reference. I assume that you will do a substantial number of practice exercises.
2. I assume that you are ready for calculus. This means that you are comfortable with the basics from algebra and trig, including log and exponential functions. *If you are weak in these areas or it has been a long time since you used these skills, you should consider taking precalculus before taking this course.*
  - (a) For very basic material, you may wish to review **Appendix A** (pages 1151-1158) for basic algebra review, interval notation, solving inequalities, absolute values, the distance formula, circles, and equations of lines. You should know all of this material well. Test yourself by trying pages 1157-1158: #1, 3, 4, 11, 13, 15, 17, 19, 23, 37, and 41.
3. The material in Chapter 1 is precalculus review. We will return briefly to some of this material when we need it later in the term. Try some of the problems below. If you have trouble, spend more time reviewing in these sections.
  - (a) For a review of functions see Chapter 1.1. Try page 9-10: #3 and 11, 19, 21, 23, 25, 27, 33, 35, 37, 41, 43, and 45.
  - (b) For a quick review on **types of functions**, see Chapter 1.2. Pay special attention to **polynomials, rational functions, and piecewise functions**. Try pages 19-21: #11, 15, 17, 25 (see Example 6), and 41.
  - (c) For a quick review of **logs, exponentials, and inverse functions**, see Chapter 1.3. Try pages 31-32: #11, 15, 17, 25 (see Example 6), and 41.
  - (d) For a quick review of **trigonometry**, see Chapter 1.4. Review the diagram on page 40. **Memorize** the trig values in at least the first quadrant. Review Examples 3 and 4 on pages 44-45 concerning inverse functions. We will return to this later in the term. Try page 47: #15, 16, 17, 23, 35, 37, 39, and 63.

### Homework to Hand In Next Class

1. Go to the course website on **Canvas** and click on the red "Homework" link or go directly to <http://math.hws.edu/~mitchell/Math130F16/index.html> and bookmark it. Under **Course Materials and Links** and click on the link "Biographical Information." Print and complete this form and return it to class on Wednesday. This exercise is partly about navigating to the correct web page.
2. Complete the last four pages of the "Prerequisites" handout (yellow sheets). Keep the first four pages for future reference. Make sure your hand in work is stapled.
3. Use the links at course website to navigate to and do the following.
  - (a) **WeBWork Intro**. Due by Wednesday night. Full credit if you attempt all the questions.
  - (b) **WeBWork Prereqs**. Due Thursday night. Ask questions in class, if needed. Remember the Math Intern is available Sunday through Thursday: 3:00-6:00, 7:00-10:00pm in Lansing 310.

Some interesting graphs



<p>minimum</p> <p>6547.1</p> <p>(Monday, Mar 9, 2009)</p>	<p>average</p> <p>11 171</p>	<p>maximum</p> <p>14 165</p> <p>(Tuesday, Oct 9, 2007)</p>
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