My Office Hours: M & W 2:30–4:00, Tu 2:00–3:30, & F 1:30–2:30 or by appointment. **Math Intern:** Sun: 2:00–5:00, 7:00–10pm; Mon thru Thu: 3:00–5:30 and 7:00–10:30pm in Lansing 310.
Website: `http://math.hws.edu/~mitchell/Math131F15/index.html`.

☕ *Practice*

☞**Test Thursday in Lab.** Volume, Work, Arc Length, Integration by Parts, Integration of Powers of Trig Functions, Integration Using Triangles. There are some practice problems online. Also review the labs.

1. (*a*) Review the **yellow handout on Triangle Substitution** and Section 7.4. If you have lost the handout, you can and should download it from the course website.

(*b*) Read about Partial Fractions, Section 7.5 through Example 3 on page 545.

2. Practice On Triangles: Page 537 #7 (do as both a triangle problem and arcsine), 17, 25, 27, 31, and 33.

Hand In

Triangle problems require a lot of practice. Make sure you "get it."

0. WeBWorK Day 24. The last three problem in the set are optional. Here's a chance to earn some extra credit on WeBWorK problems to make up for problems you may have missed.

1. Do WeBWorKDay 24, Problem 1 and hand in the work. Triangle. The double angle formula may help (see Yellow Packet, page 4). Or see #5 at the bottom of page 6 on the Triangle Handout.

2. Do WeBWorK Day 24, Problem 2 and hand in the work.

3. Do WeBWorK Day 24, Problem 3 and hand in the work.

4. Page 537 #44. Same hint as in #1.

5. Page 537 #36. Hint: Use a triangle. One side is $\sqrt{1+x^2}$. Remember to square this when replacing the denominator. Then use a reduction formula to do the integration. Remember to convert back.

6. $\displaystyle\int \frac{6x-20}{x^2-5x}\,dx$. This is a WeBWorK Day 24 problem.

7. $\displaystyle\int \frac{7x-18}{x^2-5x+6}\,dx$. This is a WeBWorK Day 24 problem.