

## Homework Assignments

### Math 130: Contemporary Mathematics Spring 2010

All homework is due at 4:30 PM on the day indicated. I encourage you to discuss the homework problems with your classmates, evening math tutors, and me, even problems you're curious about but haven't been assigned. On all problems, feel free to use technology whenever you think it would help. Particularly innovative, creative, or unique solutions are worth extra credit.

#### **Assignment due Wednesday, January 20:**

Read chapter 1. Each group should prepare to present the solution to their problem in class.  
No written work due today.

**No class Friday, January 22.** Martin Luther King day today!

#### **Assignment due Monday, January 25:**

Complete section 1.4 problems 6, 7, 8, 9, 13.

#### **Assignment due Wednesday, January 27:**

Read Section 2.2. Complete problems 8, 10, 12, 24.

#### **Assignment due Friday, January 29:**

Read Section 4.1. Complete problems 11, 15, 16, 18, 20.  
Extra credit: Pick one of the proofs of the Pythagorean Theorem that we haven't already done in class from Cut the Knot and present it on Friday.

**No assignment due Monday, February 1.**

#### **Assignment due Wednesday, February 3:**

Read Section 4.2. Complete problems 16, 17, 19, 20.

**No daily assignment due Friday, February 5.**

Team Problems #1 due today.

#### **Assignment due Monday, February 8:**

Read Section 2.3. Complete problems 11, 14, 15, 16, 27.

**No assignment due Wednesday, February 10.**

#### **Assignment due Friday, February 12:**

Read Section 2.4. Complete problems 7, 16, 29, 38.

#### **Assignment due Monday, February 15:**

Problems 3–6 from the Geometric Symmetries handout from class. Extra handouts available in the box outside my office.  
Individual Problems #1 due today.

**No assignment due Wednesday, February 17.**

#### **Assignment due Friday, February 19:**

Read the first few pages of Section 4.4. Complete problems 2, 3, 4, 18, 19.

**Assignment due Monday, February 22:**

Complete Section 4.4 problems 1, 17. Also, a) find a shape with 5 sides that tiles the plane.  
b) Find a shape with 7 sides that tiles the plane.

**Assignment due Wednesday, February 24:**

No daily assignment. Team Project #2 due today.

**No assignment due Friday, February 26.**

**Assignment due Monday, March 1:**

Read the rest of Section 4.4. Complete problems 10, 11, 12, 15.

**No assignment due Wednesday, March 3.**

**Assignment due Friday, March 5:**

Read Section 3.1. Complete problems 9, 12.  
Complete section 3.2 problems 8, 11.

**Assignment due Monday, March 8:**

Read Section 3.2. Complete problems 20, 21, 23, 24, 31.

**Assignment due Wednesday, March 10:**

Read Section 5.1. Complete problems 7, 16, 21.

**Assignment due Friday, March 12:**

Complete Section 5.1 problems 25, 26, 27, 28.

**Assignment due Monday, March 15:**

Complete Section 5.2 problems 14, 17, 18, 19.

**Assignment due Wednesday, March 17:**

Read Section 5.2. Complete problems 22, 30, 32, 40.

**Assignment due Friday, March 19:**

Read Section 4.7. Complete problems 6, 7, 8.

**No Assignment due Monday, March 29. Enjoy your break!**

**No assignment due Wednesday, March 31.**

**Assignment due Friday, April 2:**

Read Section 4.5. Complete problems 14, 15, 16, 21, 22.  
Team Project #3 due today.

**No Assignment due Monday, April 5.**

**No Assignment due Wednesday, April 7.**

**Assignment due Friday, April 9:**

Read Section 5.3. Complete section 5.3 problems 14, 21, 22, and section 5.4 problems 17, 25.  
Warning! Section 5.3 is new in the 3rd edition of the text.

**Assignment due Monday, April 12:**

Complete section 5.4 problems 24, 26, 28.

**No Assignment due Wednesday, April 14.**

**No Daily Assignment due Friday, April 16.**

Individual Problems #4 due today.

**Assignment due Monday, April 19:**

1st and 2nd editions: Read Section 6.3. Complete problems 6, 14, 21, 22, 25.  
3rd edition: Read Section 6.2. Complete problems 6, 14, 21, 22, 25.

**No Class Wednesday, April 21.** SSRD today!

**Assignment due Friday, April 23:**

1st and 2nd editions: Read Section 6.6. Complete problems 9, 11, 15, 18, 19.  
3rd edition: Read Section 6.3. Complete problems 9, 11, 15, 18, 19.

**Assignment due Monday, April 26:**

Read Section 4.6. Complete problems 6–8, 17, 18.

**Assignment due Wednesday, April 28:**

Complete Section 4.6 problems 36–39.

**Assignment due Friday, April 30:**

Read Section 6.4. Complete problems 29, 31, 35. (problem 31 refers to problem 29)

**No assignment due Monday, May 3.**

Individual Problems #4 due Tuesday, May 11.