

Homework Assignments

Math 130: Contemporary Mathematics

Spring 2009

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 21:

Read chapter 1. Think about the puzzles on your own, and be prepared to discuss them in class on Wednesday. No written work due today.

Assignment due Friday, January 23:

Complete section 1.4 problems 2, 5, 6, 7, 13.

Assignment due Monday, January 26:

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

Assignment due Wednesday, January 28:

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 Wednesday.

No assignment due Friday, January 30.

Assignment due Monday, February 2:

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

Assignment due Wednesday, February 4:

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

Team Project #1 due today.

No assignment due Friday, February 6.

No assignment due Monday, February 9.

Assignment due Wednesday, February 11:

Read Section 2.4. Complete problems 7, 16, 32, 38.

Assignment due Friday, February 13:

Daily problems handout from class. Extra handouts available in the box outside my office.

Individual Problems #1 due today.

Assignment due Monday, February 16:

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

No assignment due Wednesday, February 18.

Assignment due Friday, February 20:

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.

No assignment due Monday, February 23.

Assignment due Wednesday, February 25:

Read the rest of Section 4.4. Complete problems 10, 11, 12, 15.
Team Project #2 due today.

Assignment due Friday, February 27:

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

Assignment due Monday, March 2:

Read Section 3.2. Complete problems 21, 23, 24, 31, 35.

Assignment due Wednesday, March 4:

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

Assignment due Friday, March 6:

Complete Section 5.1 problems 23, 25, 26, 27, 31.

Assignment due Monday, March 9:

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

Assignment due Wednesday, March 11:

Read Section 5.2. Complete problems 22, 30, 32, 40.
Individual Problems #2 due today.

No assignment due Friday, March 13.

Assignment due Monday, March 16:

Read Section 4.5. Complete problems 14, 15, 16, 21, 22.

No Assignment due Wednesday, March 18.

Assignment due Friday, March 20:

Read Section 4.7. Complete problems 6, 7, 8, 19.

No Assignment due Monday, March 30. Enjoy your break!

No Daily Assignment due Wednesday, April 1.

Team Project #3 due today.

Assignment due Friday, April 3:

Read Section 5.3. Complete problems 17, 18, 25, 26, 28.
Note: the “unfoldings” in problem 25 are different than the ones in the team project.

No Assignment due Monday, April 6.

No Assignment due Wednesday, April 8.

Assignment due Friday, April 10:

Read Section 6.2. Complete problems 11, 13, 14, 17, 18.

Assignment due Monday, April 13:

Read Section 6.3. Complete problems 6, 14, 21, 22, 25.

No Class Wednesday, April 15. SSRD today!

Assignment due Friday, April 17:

Read Section 6.6. Complete problems 9, 11, 15, 18, 19.

Individual Problems #3 due today.

No Assignment due Monday, April 20.

Assignment due Wednesday, April 22:

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

Assignment due Friday, April 24:

Complete Section 4.6 problems 36–39.

Assignment due Monday, April 27:

Read Section 5.4. Complete problems 9, 19, 21, 22.

No Daily Assignment due Wednesday, April 29.

Team Project #4 due today.

No Assignment due Friday, May 1.

Assignment due Monday, May 4:

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