

Homework

Math 251 – Number Theory

Block 7 2004

The reading and oral problems are due by the beginning of class; the written and honor problems are due by 4:30 on the day indicated.

Due Monday, March 22, after break:

Reading: Chapter 0 and Section 1.1. Follow the instructions in Section 1.1, and be prepared to talk about the problems in class.

Due Tuesday, March 23:

Reading: Sections 1.2-1.8. Work out all of the exercises along the way.

Due Wednesday, March 24:

Reading: Sections 1.9-1.15. Work out all of the exercises along the way.

Written Problems: Problem 1.8.7, Chapter 1 Problem 3.

Due Thursday, March 25:

Reading: Sections 2.1-2.3. Work out all of the exercises along the way.

Oral Problems: Theorem 2.2.2, Exercises 2.2.4 and 2.3.8.

Honor Problems: On handout.

Due Friday, March 26:

Reading: Sections 2.4-2.6. Work out all of the exercises along the way.

Oral Problems: Theorems 2.4.5, 2.4.6, and 2.4.9, one for each group.

Written Problems: Chapter 2, Problems 5 and 6.

Due Monday, March 29:

Reading: Sections 3.1-3.3. Work out all of the exercises along the way.

Honor Problems: To be handed out.

Due Tuesday, March 30:

Reading: Sections 4.1 and 4.3. Work out all of the exercises along the way.

Written Problems: Theorem 3.3.3, and find and prove a formula for the sum of the first n squares.

Due Wednesday, March 31:

Reading: Section 4.2. Work out all of the exercises along the way.

Oral Problems: Theorems 4.3.8, 4.3.15, and 4.3.16. Lemma 4.3.20 and Theorem 4.3.21.

Honor Problems: To be handed out.