

Exam 3 Math 135

Note that this exam covers less material than the other two exams. Expect several questions from each section. But expect more from 7.2 than the other sections!

Section 5.1 Divisors

2, 3, 1, 2, 14, 15, 17, 22, 25, 29, 30

Know the definitions of gcd and lcm, and how to compute them.

Expect something like the proofs at the end of the section.

Section 5.2 Representations of Integers and Integer Algorithms

1, 2, 5, 8, 9, 10, 14, 16, 17, 20, 22, 23, 26, 27, 28, 35, 36, 40, 41, 56, 57

Know how to convert from one base to another. Understand the algorithms we covered.

Know how to ass numbers in different bases.

Section 7.1 Recurrence Relations.

2, 9, 10, 11, 12

Given a sequence know how to write it as a recurrence relation.

Section 7.2 Solving Recurrence Relations.

2, 5, 8, 16, 17, 22, 34.

Know how to solve recurrence relations using the different techniques we discussed in class. The biggest topic was solving these linear homogeneous equations. BE prepared to solve these. (You need to know the method).