Institut for Matematik og Datalogi
Syddansk Universitet

April 30, 2002
JFB and KM

Discrete Mathematics with Applications
F02 – Lecture 12

Lecture, April 22

We studied some properties of calculating with expectation values. The expectations of further distributions were computed. Thereafter, the variance of a random variable was introduced and analysed (Section 4.5. and "Noter til DM 11").

Lecture, April 29

In the first half we will finish with probability theory by computing the variance of some particular distributions.

Then Joan Boyar starts to lecture on basic graph theory. We will cover sections 7.1 and 7.2 in the textbook.

Lecture, May 6

We will cover sections 7.3, 7.4, and 7.5 in the textbook. We will work with a modification of definition 1 on page 467: A path is *simple* if no vertex is included in its vertex sequence more than once, and a circuit (or cycle) is *simple* if no vertex is included in its vertex sequence more than once, except the first, which only appears as the first and last vertex. This definition is more standard than the one in the textbook. The same modification will be appied to definition 2 on page 468.

Problems to be discussed on May 7

Problems from Section 7.1: 11a, 11c.

Problems from Section 7.2: 14, 18, 34, 36, 38. For problem 34, look at the definition in problem 33.