
Due: March 8, 2001, at the start of class.

Credit: 20 points.

1 Problems

1. (6 points) Do problem 17 on p. 138 of the textbook. Use the first principle of mathematical induction. Be sure to identify the base case(s) and, in the inductive step, the inductive hypothesis and what is to be proved.

2. (6 points) Do problem 22 on p. 138 of the textbook. Use the second principle of mathematical induction. Be sure to identify the base case(s) and, in the inductive step, the inductive hypothesis and what is to be proved.
