Math 234 Preview Exercises

Section 5.5 NAME _____

Read Section 5.5 in the textbook and answer the following questions. *Hand in this worksheet at the next class.*

1. What is a **recurrence relation**?

2. What are **initial conditions** for a recurrence relation?

3. How is a recursively defined sequence similar to a proof by induction?

4. What recurrence relation is satisfied by the Catalan numbers?

5. What recurrence relation is satisfied by the Fibonacci numbers? What are the initial conditions for the Fibonacci numbers?