## Math 234 Preview Exercises

Sections 7.4

NAME

Read Section 7.4 in the textbook and answer the following questions. *Hand in this worksheet at the next class*.

1. What does it mean if two sets have the same **cardinality**?

2. What is the **transitive property of cardinality**?

3. What is the meaning of  $2\mathbf{Z}$ ?

4. What does it mean for a set to be **countably infinite**?

5. What does it mean for a set to be **uncountable**?

6. Is the set of all real numbers between 0 and 1 countable or uncountable?