

# Math 234 Preview Exercises

Section 4.1

\_\_\_\_\_ NAME

Read Section 4.1 in the textbook and answer the following questions. *Hand in this worksheet at the next class.*

1. Is 1 a prime number? Why or why not?
2. How is a *nonconstructive* proof of existence different from a *constructive* proof of existence?
3. What is the “method of generalizing from the generic particular”?
4. What is a *direct proof*?
5. Why is “arguing from examples” a mistake when writing a proof?