

MATH 348 Reading Questions

Chapters 1 and 2

_____ NAME

Read pages 1–14 in the textbook and answer the following questions. This sheet will be checked for completeness at the beginning of the next class.

1. What concept or example in Chapter 1 do you find most interesting or are you most curious about?
2. How can the notion of a continuous function $f : \mathbb{R} \rightarrow \mathbb{R}$ be expressed using sequences?¹
3. What is the definition of *continuity of a function f at a point a* ?
4. What is the definition of an *open set* of real numbers?
5. What is the definition of an *closed set* of real numbers?
6. If f is a function and you encounter the notation $f^{-1}(S)$ in the text, does this mean that f is an *invertible* function? Explain.

¹The most common notation for the real numbers is \mathbb{R} , but our text uses \mathbf{R} instead.

MATH 348 Reading Questions

Sections 3.1–3.2

NAME

Read pages 15–??? in the textbook and answer the following questions. *This sheet will be checked for completeness at the beginning of the next class.*

1. q?

2. q?

3. q?

4. q?

5. q?

6. q?