Reading: from Reed’s textbook: study sections 3.5,3.6, in their entirety, paying attention to both the theorems and the examples.

Problems:
§3.3: #3,8,10,13,14
§3.5: #4
§3.6: #9

Additional Problems
Which of the following improper Riemann integrals exist?

- \( \int_0^\infty \frac{e^{-x}}{\sqrt{x}} dx \)
- \( \int_{-\infty}^{\infty} \frac{x}{2} dx \)
- \( \int_{-\infty}^{\infty} \frac{1}{1+x^3} dx \)