Math 444

Homework 9

It will not be collected


4. Section 6.4 (pp. 196 – 197 in the textbook) Exercises: 2 – 6, 8, 10, 14, 15, 18, 19.

5. Section 8.4 (p. 265 – 266 in the textbook) Exercises: 1 – 5, 7 – 10, where, in the last 4 problems the definition of $c(x)$ and $s(x)$ is given by power series:

$$c(x) = 1 + \frac{x^2}{2!} + \frac{x^4}{4!} + \cdots + \frac{x^{2n}}{2n!} + \cdots$$

$$s(x) = \frac{x}{1!} + \frac{x^3}{3!} + \cdots + \frac{x^{2n-1}}{(2n-1)!} + \cdots$$