

Homework 7.

Read Section 3.6 of the book and solve the following exercises.

Exercise 1. Exercise 10 p181 of Section 3.6 of the book

Exercise 2. Exercise 18 p 181 of Section 3.6 of the book.

Exercise 3. Give the domain of differentiability and the derivative of the following functions

1. $f(x) = e^{4x^2+1}$
2. $f(x) = \sqrt{2x-1}$
3. $f(x) = \sqrt{3x^2-3}$
4. $f(x) = \cos(\sin(x))$
5. $f(x) = (e^x + 2x)^4$