



COMSATS University Islamabad

Attock Campus

Department of Mathematics

Assignment # 01

Class: BSM-VI

Subject: Real Analysis II

Instructor: Dr. Atiq ur Rehman

Due Date: 21-02-2022 (11:30AM)

Course Code: MTH322

Marks: 10

Note: ♦ Please follow the due date & time strictly.
♦ Student may submit the hard copy of the assignment during office time.
♦ If one is planning for holiday on due date, they may submit the assignment earlier.

Question # 1

Using the definition of the integral to compute the $\int_0^2 (x^2 + 1)dx$.

Question # 2

Using the definition of the integral to compute the integral of your choice other than above.

Question # 3

In two or three line, show that $\int_{-\pi}^{\pi} 5x^4 \sin x dx$ is zero by using properties of integrals.

Academic Honesty Requirements:

You are encouraged to work with others in the completion of assignments but it doesn't include copying. However, in the spirit of Academic Honesty, which includes crediting others for their contribution to your work, please include one of the following statements with every submitted assignment on title page:

1. I worked alone on this assignment.
2. I worked with the following: List their full names. Include their relationship to you if they are not also a member of this class.