



COMSATS University Islamabad

Attock Campus

Department of Mathematics

Assignment # 02

Class: MSc-I
Subject: Real Analysis I
Instructor: Dr. Atiq ur Rehman

Due Date: 28-02-2020 (5:00PM)
Course Code: MTH321
Marks: 05

Note: Please follow the due date & time strictly.

Question # 1:

Give the definitions of the followings:

- (i) Inner product in Euclidean space.
- (ii) Norm of vector in Euclidean space.

Question # 2:

If $a, b \in \mathbb{R}$, then $|a + b| \leq |a| + |b|$.

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.