



# COMSATS University Islamabad

Attock Campus



## Department of Mathematics

### Assignment # 01

**Class:** BSM-VIII

**Subject:** Convex Analysis

**Instructor:** Dr. Atiq ur Rehman

**Due Date:** 17-02-2024 (1250PST)

**Course Code:** MTH424

**Marks:** 20

Name: \_\_\_\_\_

Reg: FA21-BSM-\_\_\_\_\_

**Question # 1:** Prove that the intersection of an arbitrary collection of convex sets is convex.

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**Question # 2:** Define norm of the vector?

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