

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
DEPARTMENT OF MATHEMATICS AND STATISTICS

Class Test - 8

MA517M-Basic Programming Laboratory

06 October 2025

Name

Roll No.: MA25M

1. Download the Vector Class and add the following functions to the Vector class, and write their respective code

- (a) `double norm1(const Vector& v)`
- (b) `double norm2(const Vector& v)`
- (c) `double norm(const Vector& v, int p)`
- (d) `double infnorm(const Vector& v)`

2. Download the Matrix Class and add the following functions to the Matrix class, and write their respective code

- (a) `double norm1(const Matrix& A)`
- (b) `double infnorm(const Matrix& A)`
- (c) `double Frobeniusnorm(const Matrix& A)`