

Department of Mathematics and Statistics, KFUPM
Math-302 Semester-173 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section:01

Time Allowed: 30 minutes

(1) Given a subset S of R^2 defined by

$$S = \{(x, y) \in R^2 : 2x - y = 0\}.$$

- (i) Is S a subspace? (Why?) (ii) Find a basis and dimension of S .
(2) Solve the following system by Gauss-Jordan method:

$$x + y + z = 3$$

$$y + z = 5$$

$$x + y = 7$$