

Department of Mathematics and Statistics KFUPM
STAT 301-01 Quiz#1, Time: 15 mins

Student's Name: _____ ID: _____

Q.No.1: - Suppose that two teams play a series of games that ends when one of them has won 2 games. Suppose that each game played is, independently, won by team A with probability p .

(a) Find the expected number of games that are played.

(b) For what value of p , the expected value found in part (a) is maximized? Justify your answer.

Best of Luck

