

North South University

Mat361

Quiz 1

Total Marks-10 (Time – 20 min + 10 min)

1) If you roll one dice, what is the probability of getting an even number or a odd number? Are the events mutually exclusive? Explain why? [3]

2) A card is drawn at random from a pack of cards. Calculate: $P(\text{club} \mid \text{black picture card})$ [3]

3) The probability density function is $f(x) = 2(1-x^2)$ $-4 < x < 1$

Is it a valid probability density function. Explain . [4]