

North South University

Mat361

Quiz 1

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

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

i) Find the value of C. [3]

ii) $F(1.5) = ?$ where F indicate cumulative distribution function. [3]

ii) Calculate variance. [4]