Math 4721 Quiz 2

Please answer in a loose sheet
Write your ID number at the top of your first page.
Total marks: 15
Time: 15 minutes

1

A playing die is rolled 9 times. What is the probability that the six will fall:
a. Exactly 4 times? 2
b. At least 2 times? 2

2

A continuous random variable X has a uniform distribution from 5 to 20.
a. Write the equations of its probability density function and cumulative distribution function. 2
b. Graphically represent the probability density function and cumulative distribution function. 3

3

a. Define expected value of a random variable. 2
b. What is the difference between discreet and continuous random variables? 2

4

If X is a random integer between 1 and 5, what is the expected value of X? 2