

Edexcel Maths S2

Topic Questions from Papers

Continuous Uniform Distribution

1. A string AB of length 5 cm is cut, in a random place C , into two pieces. The random variable X is the length of AC .
- (a) Write down the name of the probability distribution of X and sketch the graph of its probability density function. **(3)**
- (b) Find the values of $E(X)$ and $\text{Var}(X)$. **(3)**
- (c) Find $P(X > 3)$. **(1)**
- (d) Write down the probability that AC is 3 cm long. **(1)**



