

Here are the questions from [1.2 Random Variables - Quiz]

1. For a discrete function $Pr\{z\}$ to be a probability mass function (pmf) it needs to have the following properties.

(Chose the correct answer)

Optional Answers:

1. For all possible values of z , $Pr\{z\}$ needs to be STRICTLY positive and it needs to sum to 1.
2. $Pr\{z\}$ can be negative for some values as long as it sums to 1 for all possible values of z .
3. For all possible values of z , $Pr\{z\}$ needs to be positive and it needs to sum to 1.
4. For all possible values of z , $Pr\{z\}$ needs to be positive but it does not have to sum to 1.

2. Which of the following Uniform distributions will have a probability density function where $p(z) > 1$ for some value of z ?

Optional Answers:

1. Z is a Uniform random variable between -10 and 10
2. Z is a Uniform random variable between 0 and 0.5.
3. Non of the above.
4. Z is a Uniform random variable between 0 and 2π .

Thank You