



Exam No. 101 Date 10/10/2010 Name Abdullah Al-Mutairi

Q1. A discrete random variable X has the following probability mass function:

- (a) X has the following probability mass function: $P(X=x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$ for $x=0,1,2,\dots$. Find the probability that X is even.

$$P(X \text{ is even}) = \sum_{k=0}^{\infty} P(X=2k) = \sum_{k=0}^{\infty} \frac{1}{2} \left(\frac{1}{2}\right)^{2k}$$

Let $Y = \frac{1}{2} \left(\frac{1}{2}\right)^x$ for $x=0,1,2,\dots$. Then Y is a geometric random variable with $p = \frac{1}{2}$.
 The probability that X is even is $P(Y=1) = \frac{1}{2}$.

- (b) A discrete random variable X has the following probability mass function:

x	0	1	2	3	4
$P(X=x)$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$

Find the probability that X is even. $P(X \text{ is even}) = P(X=0) + P(X=2) + P(X=4) = \frac{1}{2} + \frac{1}{8} + \frac{1}{32} = \frac{17}{32}$.

- (c) A discrete random variable X has the following probability mass function: $P(X=x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$ for $x=0,1,2,\dots$. Find the probability that X is odd.

$$P(X \text{ is odd}) = \sum_{k=0}^{\infty} P(X=2k+1) = \sum_{k=0}^{\infty} \frac{1}{2} \left(\frac{1}{2}\right)^{2k+1} = \frac{1}{2} \sum_{k=0}^{\infty} \left(\frac{1}{4}\right)^k = \frac{1}{2} \cdot \frac{1}{1 - \frac{1}{4}} = \frac{1}{2} \cdot \frac{4}{3} = \frac{2}{3}$$

- (d) X has the following probability mass function: $P(X=x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$ for $x=0,1,2,\dots$. Find the probability that X is a prime number.
- (e) X has the following probability mass function: $P(X=x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$ for $x=0,1,2,\dots$. Find the probability that X is a composite number.

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Didier Musso



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