

1. A random Variable has the following distribution

X	1	2	3	4	5	6
P(x)	k	2k	0.1	0.2	0.01	$\frac{1}{2}$

find

- (1) the value of 'k'
- (2) find the Variance
- (3) find the probability density function

2. A random Variable has the following distribution

X	1	2	3	4	5	6
P(x)	0.2	0.2	0.4	0.1	0.05	0.05

find the Variance.

3.

X	1	2	3
P(x)	0.1	0.8	0.1

→ for the following R.V,

find the Variance

find  $P(x \geq 1)$