

(iv) $P(x \geq 2)$

(v) $P(x < 2)$

(vi) $P(-1 < x < 3)$

Solution: (i) the value of $k = 0.1$

(ii) mean = 0.8

(iii) variance = 2.16

(iv) $P(x \geq 2) = 0.4$

(v) $P(x < 2) = 0.6$

(vi) $P(-1 < x < 3) = 0.7$

5. A random variable X has the following probability function.

x	1	2	3	4	5	6	7
$P(x)$	k	$2k$	$2k$	$3k$	k^2	$2k^2$	$7k^2 + k$

Find (i) value of k

(ii) $P(x \geq 6)$

(iii) $P(x < 6)$

(iv) $P(1 \leq x < 5)$

(v) $E(x)$

Solution: (i) value of k

$$k = -1 \text{ (Or) } k = \frac{1}{10}$$

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