

$P(X=x)$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{12}$	$\frac{1}{6}$
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(a) Write down the value of $F(5)$

$$F(5) = P(X \leq 5) = 1 - \frac{1}{6} = \frac{5}{6}$$

(b) Find $E(X)$ = $\sum x P(X=x) = -2\left(\frac{1}{4}\right) + 1\left(\frac{1}{6}\right) + 3\left(\frac{1}{3}\right) + 4\left(\frac{1}{12}\right) + 6\left(\frac{1}{6}\right)$ (1)

$$= 2$$
 (2)

(c) Find $\text{Var}(X)$

$$= E(X^2) - (E(X))^2 = (-1)^2\left(\frac{1}{4}\right) + 1^2\left(\frac{1}{6}\right) + 3^2\left(\frac{1}{3}\right) + 4^2\left(\frac{1}{12}\right) + 6^2\left(\frac{1}{6}\right)$$
 (3)
$$- 2^2 = 7.5$$

The random variable $Y = 7 - 2X$

(d) Find

(i) $E(Y) = 7 - 2E(X) = 7 - 2(2) = 3$

$$E(ax+b) = aE(x) + b$$

(ii) $\text{Var}(Y) = (-2)^2 \text{Var}(X) = 4 \times 7.5 = 30$

$$\text{Var}(ax+b) = a^2 \text{Var}(x)$$

(iii) $P(Y > X)$

$$7 - 2X > X$$

$$7 > 3X$$

$$X < \left(\frac{7}{3}\right)$$
 (6)

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CGP Books, Richard Parsons



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