$$\int_{1}^{1} \frac{1}{1 + \rho^{2}} d\rho = \frac{1}{2 \sqrt{1 + \rho^{2}}} d\rho = \frac{1}{2 \sqrt{1$$

$$P(XY \ge 0) = 1 - 2 \cdot \left(\frac{1}{4} + \frac{Q_0}{2\lambda}\right)$$

$$= 1 - \frac{1}{2} - \frac{Q_0}{\lambda}.$$

$$= \frac{1}{\lambda} \left(\frac{\lambda}{2} - \arcsin \beta\right)$$

$$= \frac{1}{\lambda} \arctan \beta$$

P=05

4	5	b	7
0.175	S. Y.	03125	0.31125

EX = 4×0-1×5 + 5×0-× + 6×031×5+7×0.31×5 = 5.81×5

p=06

4	5	b	7
0-1552	0.788	0-29952	027648

EX= 4x0.1552 + 5x0-2688 + 6x0.29952+7x0-27668 = 5.69728

3. (1).
$$EX = \sum_{n=1}^{\infty} nP(X=n)$$

$$= P(X=1) + 2P(X=2) + \cdots$$

$$= (P(X=1) + P(X=2) + \cdots) + (P(X=2) + \cdots) + (P(X=2) + \cdots) + \cdots$$

$$= \sum_{n=1}^{\infty} P(X>n)$$

$$= \sum_{n=1}^{\infty} P(X>n)$$

$$= \sum_{n=1}^{\infty} (1-F(x)) dx = \int_{0}^{\infty} (1-\int_{0}^{x} f(x) dx) dx$$

$$= \int_{0}^{x} f(x) dx dx = \int_{0}^{x} (1-\int_{0}^{x} f(x) dx) dx$$

$$= \int_{0}^{x} f(x) dx dx dx dx dx$$

$$= \int_{0}^{x} f(x) dx dx dx dx dx$$

$$= \int_{0}^$$

$$\frac{1}{n} = x_1 + \sum_{i=1}^{\infty} \frac{1}{n_i} \frac{1}{$$