$$E(\alpha X + b Y + C) = \alpha E(X) + b E(Y) + C$$

$$V_{0}Y(\alpha X + b Y + C) = V_{0}Y(\alpha X + b Y) = \alpha^{2}V_{0}Y(X) + b^{2}V_{0}Y(Y) + 2ab(\alpha X + Y)$$

$$EX 4. \text{ if } X, Y \text{ are independent random variables such that } E(X) = E(Y) = \mu. V_{0}X(X) + V_{0}X(Y) + 2(\frac{1}{2}X) + \frac{1}{2}E(Y) = \frac{1}{2}E(X) + \frac{1}{2}E(X$$