Section: 04

SET -3

1.
$$\int (x, y) = ny$$
. $\int (x, y) = ny$.

4

$$h(y) = \int_{0}^{1} hy dh$$

$$= y \left[\frac{x^{2}}{2} \right]_{0}^{1}$$

$$= y \cdot \frac{1}{2} = \frac{1}{2} y$$

$$F(w) = \int_{0}^{1} n g(w) dw$$

$$= 2 \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1}$$

$$= 2 \cdot \left[\frac{1}{3} - 0 \right]$$

$$= \frac{1}{2} \cdot \left[\frac{y^{3}}{3} \right]_{0}^{1}$$

$$= \frac{1}{2} \cdot \left[\frac{y^{3}}{3} \right]_{0}^{1}$$

$$= \frac{1}{2} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1} + \frac{1}{2} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1}$$

$$= \frac{1}{3} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1} + \frac{1}{2} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1} + \frac{1}{2} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1}$$

$$= \frac{1}{3} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1} + \frac{1}{2} \cdot \left[\frac{x^{3}}{3} \right]_{0}^{1}$$

Covariance
$$\frac{1}{3}$$
 covariance $\frac{1}{3}$ covarian

There are no relation between two war variable rand &. Because cov = 0 as well as corr = 0.