

# UB Information Technology

$$\text{mean} = \mu = E[x]$$

$$\begin{aligned}\text{variance} = \sigma^2 &= E[x - E(x)]^2 \\&= E[x^2 + E^2(x) - 2x E(x)] \\&= E[x^2] + E^2(x) - 2E(x)E(x) \\&= E[x^2] + E^2(x) - 2E^2(x) \\ \text{variance} &= E[x^2] - E^2(x).\end{aligned}$$

Date: 3/26/2020

Job: 51

Time: 10:08:13 AM

# vimalikum