22/02/18

Data Preparation and Analysis
Homework 2

Ruesti on 1.2.-

Problem 7:-

Pyes (x) =
$$\pi_{ys} \exp\left(-\frac{(x - Mys)^2}{2\sigma^2}\right)$$
 $\pi_{ys} \exp\left(-\frac{(x - Mys)^2}{2\sigma^2}\right) + \pi_{ys} \exp\left(-\frac{(x - Mys)^2}{2\sigma^2}\right)$

Pyes (4) = $0.8 \exp\left(-\frac{(4 - 10)^2}{2 \times 36}\right)$
 $0.8 \exp\left(-\frac{(4 - 10)^2}{2 \times 36}\right) + 0.2 \exp\left(-\frac{(4 - 0)^2}{2 \times 36}\right)$

Problem 9:-

a) $0 dds = \frac{P(x)}{1 - P(x)} = 0.37$
 $= 27.4$

b) odds =
$$\frac{P(x)}{1-P(x)} = \frac{.16}{1-(0.16)} = \frac{.16}{.84} = 0.1964$$