5 VOZGIMENTO APPELLO 11/06/2020 TRACIA (1) h-1 H1 = { une vite viene probette solle mocchine 1} H2 = June ute viene prodette Selle mocchine 2 } H3 = { une ute mene prodette delle machione 3} E= { le vite = stifettore}  $P(H_2) = \frac{50}{100} = 0.5$ ,  $P(H_2) = \frac{30}{100} = 0.3$   $P(H_3) = \frac{20}{100} = 0.2$ P(E) = P(E|H1) P(H1) + P(E|H2)P(E12)+ I(E|H3)P(H3)=  $= 0.08 \times 0.5 + 0.06 \times 0.3 + 0.05 \times 0.2 = 0.068$  $P(H_2|E) \stackrel{BAYES}{=} P(E|H_2) P(H_2) = 0.06 \times 0.3 = 0.2642$ 

$$V(X) = E(X^{2}) - E(X)^{2}$$

$$E(X^{2}) = \int_{0}^{4} x^{2} f(y) dx = \frac{3}{64} \int_{0}^{4} x^{4} dx = \frac{3}{64} \left[ \frac{X^{5}}{5} \right]_{0}^{4} = \frac{3}{64} \left[ \frac{1}{5} x^{5} \right]_{0}^{4} = \frac{3}{64} \left[ \frac{1}{5} x^{5} \right]_{0}^{4} = \frac{3}{64} \left[ \frac{1}{5} x^{5} \right]_{0}^{4} = \frac{3}{5} \left[ \frac{3}{5} x^{5} \right]_{0}^{4} = \frac{3}{5}$$



