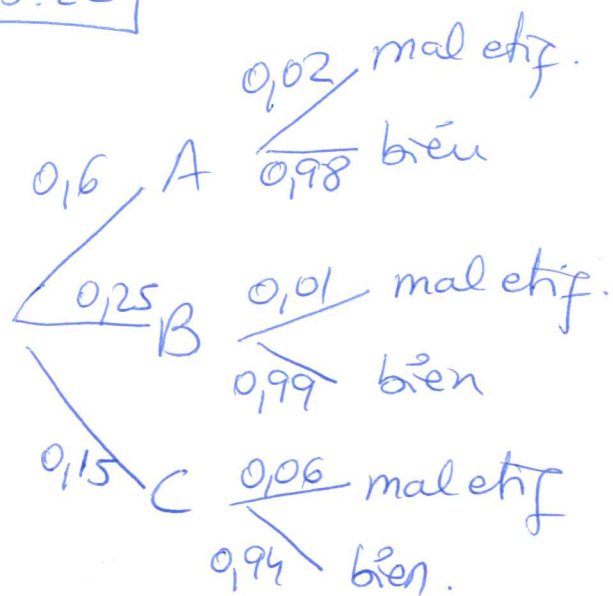
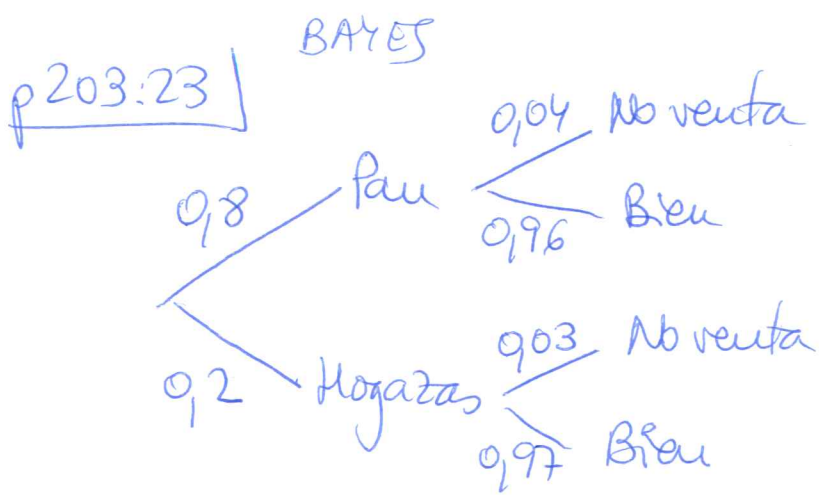


p203:22] BAYES



$$\begin{aligned} 2) P[\text{Mal etiquetado}] &= P[A] \cdot P[\text{Mal} | A] + P[B] \cdot P[\text{Mal} | B] + P[C] \cdot P[\text{Mal} | C] \\ &= 0,6 \cdot 0,02 + 0,25 \cdot 0,01 + 0,15 \cdot 0,06 = \\ &= 0,012 + 0,0025 + 0,009 = 0,0235 \end{aligned}$$

$$\begin{aligned} b) P[C | \text{bien etiqu.}] &= \frac{P[C \cap \text{bien etiqu.}]}{P[\text{bien etiqu.}]} = \frac{P[C] \cdot P[\text{bien} | C]}{1 - P[\text{mal etiqu.}]} = \\ &= \frac{0,15 \cdot 0,94}{1 - 0,0235} = \frac{0,141}{0,9765} = 0,1444 \end{aligned}$$



$$a) P[\text{No se pueda vender}] = P[\text{Pau}] \cdot P[\text{No venta} / \text{Pau}] + P[\text{Hog}] \cdot P[\text{No venta} / \text{Hog}]$$

$$= 0,8 \cdot 0,04 + 0,2 \cdot 0,03 = 0,038$$

$$b) P[\text{Pau} / \text{No se pueda vender}] = \frac{P[\text{Pau} \cap \text{No venta}]}{P[\text{No se pueda vender}]} = \frac{P[\text{Pau}] \cdot P[\text{No venta} / \text{Pau}]}{P[\text{No venta}]}$$

$$= \frac{0,8 \cdot 0,04}{0,038} = 0,8421$$