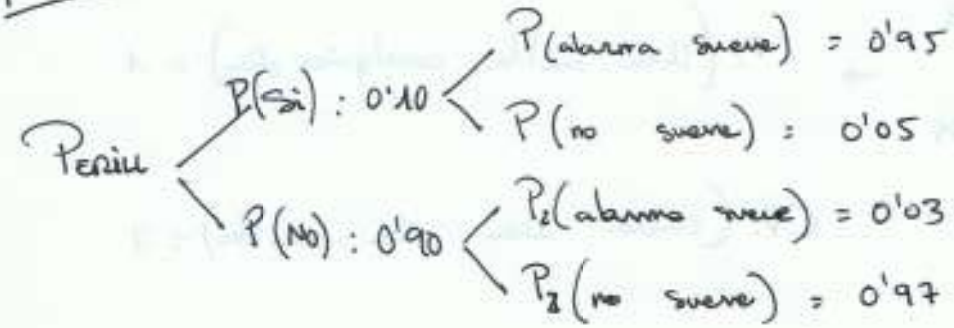
PROBLEMES PROBABILITAT

ANTONIO VEGA LÓPEZ

PROBLEMA 10.



(a)

$$CF = P(\text{sonart alarma, no perill}) = 0.03 \cdot 0'90$$

$$CP = (\text{casos totales sueva alarma}) = 0'03 \cdot 0'9 + 0'95 \cdot 0'1$$

$$\frac{CF}{CP} = \frac{0'03 \cdot 0'90}{0'03 \cdot 0'90 + 0'95 \cdot 0'1} = \underline{0,221}$$

(b)

$$CF = P(\text{hagi perill i soni}) = 0'10 \cdot 0'95$$

$$CP = (\text{casos totales sueva alarma}) = 0'03 \cdot 0'9 + 0'95 \cdot 0'1$$

$$\frac{CF}{CP} = \frac{0'10 \cdot 0'95}{0'03 \cdot 0'9 + 0'95 \cdot 0'1} = \underline{0'778}$$

(c)

$$CF = P(\text{no sueve i hagi perill}) = 0'05 \cdot 0'1$$

$$CP = (\text{casos totales no sueva}) = 0'97 \cdot 0'90 + 0'05 \cdot 0'1$$

$$\frac{CF}{CP} = \frac{0'05 \cdot 0'1}{0'97 \cdot 0'90 + 0'05 \cdot 0'1} = \underline{0'005}$$