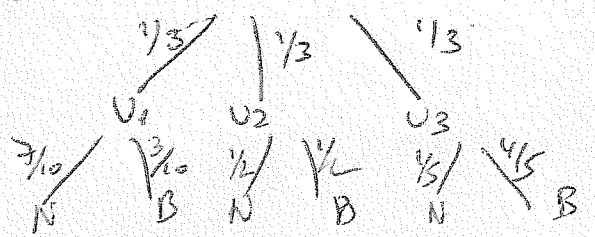
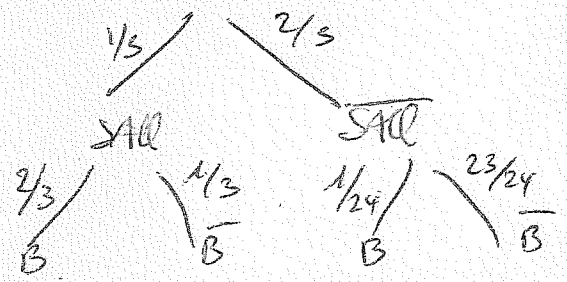
ex 19 :



$$P(U_1/N) = \frac{P(U_1 \cap N)}{P(N)} = \frac{\frac{1}{3}\cdot\frac{7}{10}}{\frac{1}{3}\cdot\frac{7}{10}+\frac{1}{3}\cdot\frac{1}{2}+\frac{1}{3}\cdot\frac{1}{5}} = \ldots = \frac{1}{2}$$

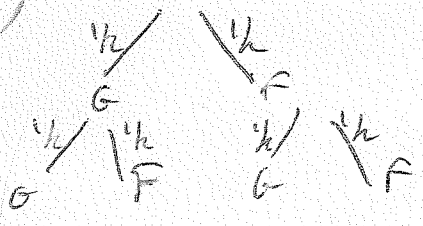
ex 20 :



$$P(SAC/B) = \frac{P(SAC \cap B)}{P(B)}$$

$$= \frac{1/3 \cdot 2/3}{1/3\cdot 2/3 + 2/3 \cdot 1/24} = \ldots = 8/9$$

ex 21 a)

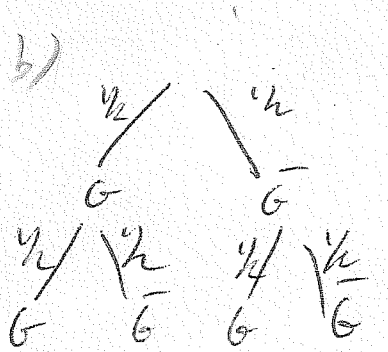


A = au moins un garçon

B = un 2ème G

$$P(B/A) = \frac{P(B \cap A)}{P(A)} = \frac{1/4}{3/4} = \frac{1}{3}$$

b)

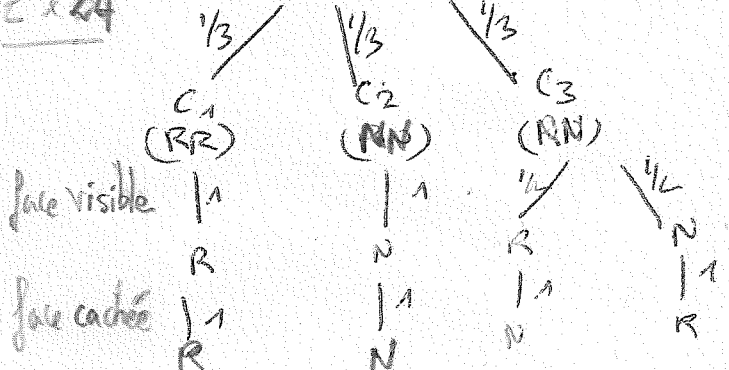


$$P(G_2/G_1) = \frac{P(G_2 \cap G_1)}{P(G_1)} = \frac{1/4}{1/2} = 1/2$$

G_1 : le 1er est un garçon

G_2 : " 2ème " " "

Ex 24



A = face visible rouge

B = face cachée noire

$$P(B/A) = \frac{P(A \cap B)}{P(A)} = \frac{1/3 \cdot 1/2 \cdot 1}{1/3 \cdot 1 + 1/3 \cdot 1/2} = \frac{1}{3}$$