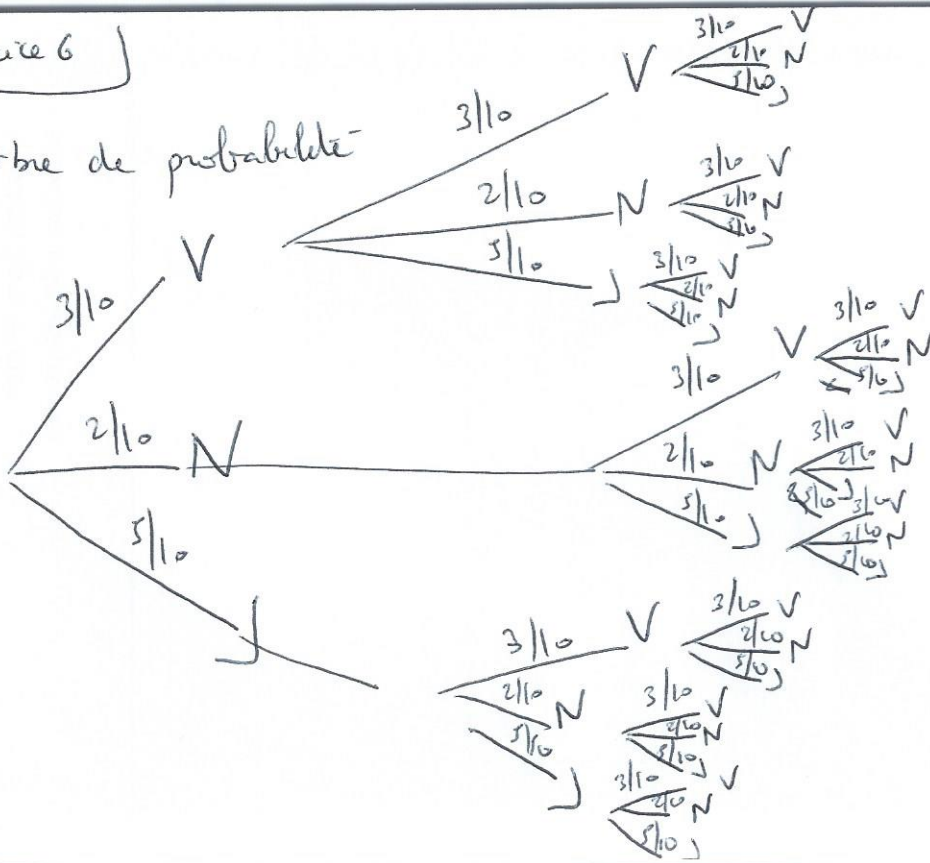


Exercice 6

Arbre de probabilité



(1) ~~P(A=1)~~ $P(A) = \frac{2}{10} \times \frac{2}{10} \times \frac{2}{10} = \frac{8}{1000} = \frac{1}{125}$

$P(B) = \frac{3}{10} \times \frac{2}{10} \times \frac{5}{10} = \frac{30}{1000} = \frac{3}{100}$

(2) $P(X=3) = 3 \times P(B) = \frac{9}{100}$

$P(X=1) = P(VVV) + P(NNN) + P(JJJ) = \frac{3^3 + 2^3 + 5^3}{1000} = \frac{27 + 8 + 125}{1000} = \frac{160}{1000} = \frac{4}{25}$

$P(X=2) = 1 - P(X=1) - P(X=3) = 1 - \frac{4}{25} - \frac{9}{100} = \frac{75}{100} = \frac{3}{4}$

Le tableau de probabilité est

X	1	2	3
P(X)	4/25	3/4	9/100