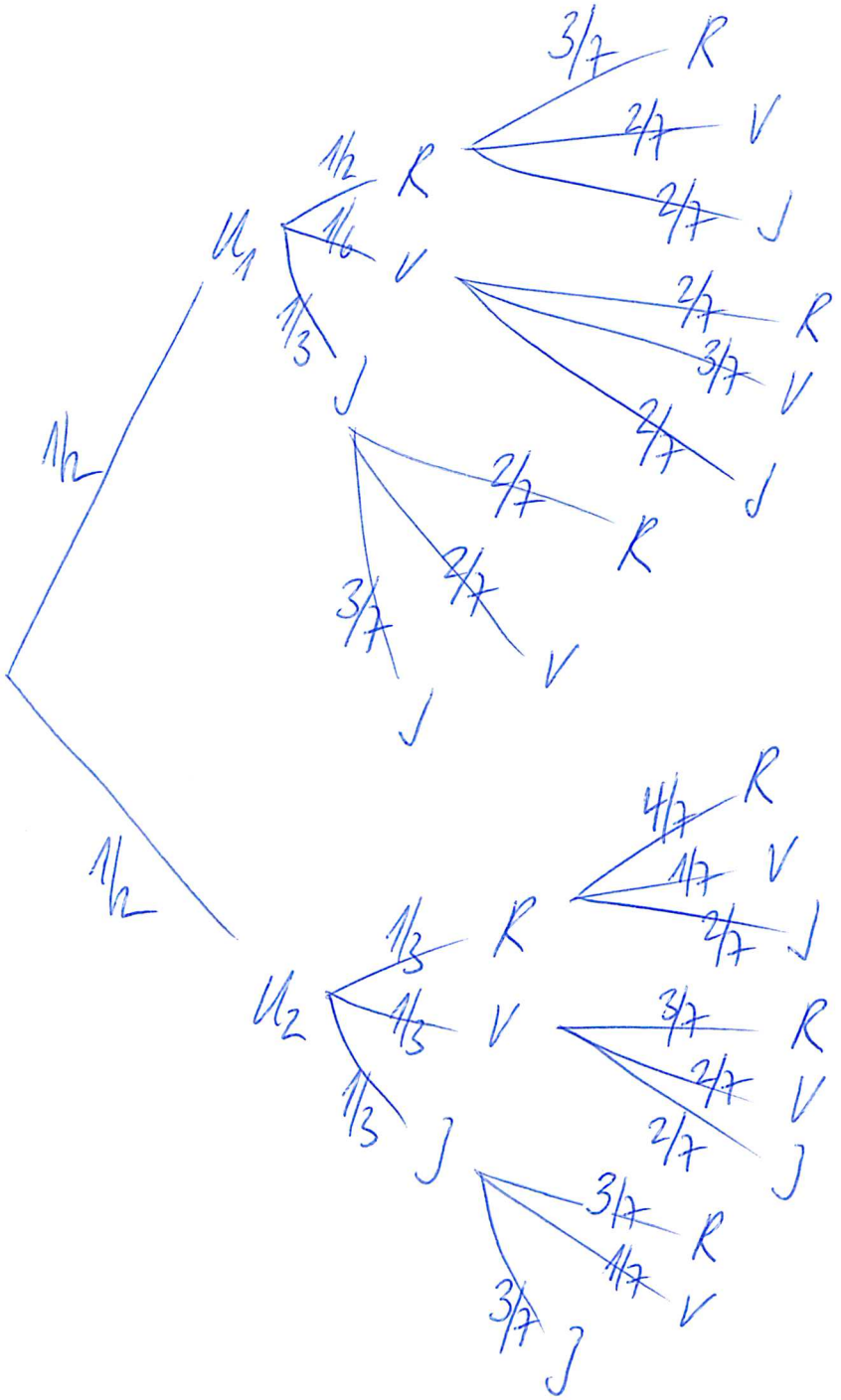
U_1 : 3R 1V 2J

U_2 : 2R 2V 2J



Arbre des possibilités...

a) $p(R) = \frac{1}{2}\cdot\frac{1}{2}\cdot\frac{3}{7} + \frac{1}{2}\cdot\frac{1}{6}\cdot\frac{2}{7} + \frac{1}{2}\cdot\frac{1}{3}\cdot\frac{2}{7}$

$+ \frac{1}{2}\cdot\frac{1}{3}\cdot\frac{4}{7} + \frac{1}{2}\cdot\frac{1}{3}\cdot\frac{3}{7} + \frac{1}{2}\cdot\frac{1}{3}\cdot\frac{3}{7}$

$= \frac{5}{12}$

b) $p(R \text{ si } R) = \frac{p(R \text{ et } R)}{p(R \text{ et } \dots)}$

$= \frac{\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{3}{7} + \frac{1}{2}\cdot\frac{1}{3}\cdot\frac{4}{7}}{\frac{1}{2}\cdot\frac{1}{2} + \frac{1}{2}\cdot\frac{1}{3}}$

$= \frac{17}{35}$

c) $p(R/U_1) = \frac{1}{2} \cdot \frac{3}{7} + \frac{1}{6} \cdot \frac{2}{7} + \frac{1}{3} \cdot \frac{2}{7}$

$= \frac{5}{14}$

d) $p(U_1/R) = \frac{p(U_1 \text{ et } R)}{p(R)}$

$= \frac{\frac{1}{2} \cdot \frac{5}{14}}{\frac{5}{12}} = \frac{3}{7}$