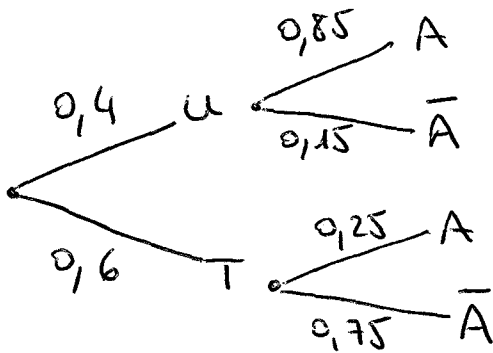


EXERCICE 2



1. a) $p(U) = 0,4$

b) $p(T) = 1 - p(U) = 1 - 0,4 = 0,6$

c) $p(A) = 0,85$

2. $p(U \cap A) = p(U) \times p_U(A) = 0,4 \times 0,85 = 0,34$

3. $p(A) = p(U \cap A) + p(T \cap A)$

$$p(A) = p(U \cap A) + p(T) \times p_T(A)$$

$$p(A) = 0,34 + 0,6 \times 0,25$$

$$p(A) = 0,34 + 0,15$$

$$p(A) = 0,49$$

4. $p_U(A) = \frac{p(U \cap A)}{p(A)} = \frac{0,34}{0,49} = \frac{34}{49} \approx 0,69$