

Correction du DM TES probabilités

Exercice 67 p. 207

1)

$$2)a) p(T \cap A) = \frac{3}{4} \times \frac{9}{10} = \frac{27}{40}.$$

$$b) p(T \cap \bar{A}) = \frac{3}{4} \times \frac{1}{10} = \frac{3}{40}.$$

$$c) p(\bar{T} \cap A) = \frac{1}{4} \times \frac{2}{10} = \frac{2}{40}.$$

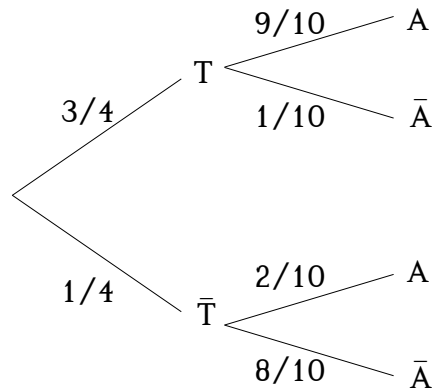
$$d) p(\bar{T} \cap \bar{A}) = \frac{1}{4} \times \frac{8}{10} = \frac{8}{40}.$$

3)a)

$$p(A) = p(T \cap A) + p(\bar{T} \cap A) = \frac{27}{40} + \frac{2}{40} = \frac{29}{40}.$$

$$b) p_A(T) = \frac{p(T \cap A)}{p(A)} = \frac{27}{40} \times \frac{40}{29} = \frac{27}{29}.$$

$$4) p(S) = p(\bar{T} \cap A) + p(T \cap \bar{A}) = \frac{2}{40} + \frac{3}{40} = \frac{5}{40} = \frac{1}{8} = 0,125.$$



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