

# Exercice du lundi 18 mai 2020

1 STMG

MATHÉMATIQUES



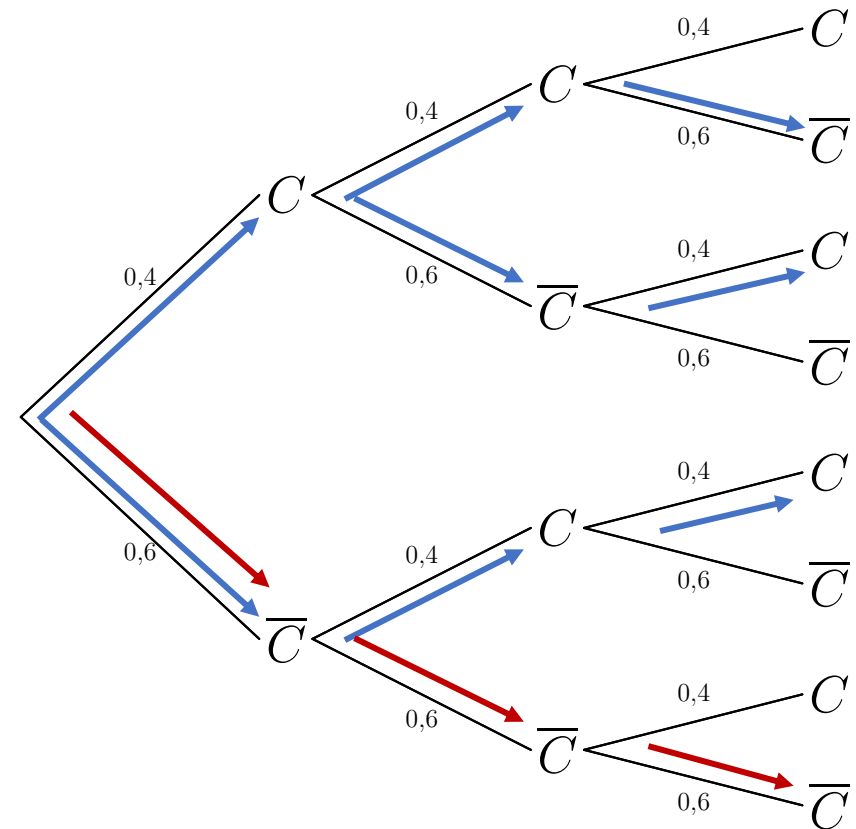
NOTRE DAME DU VOEU  
LYCÉE

# Exercice 41 page 158

2°)  $P(X = 2) = 3 \times 0,4 \times 0,4 \times 0,6 = 0,288$

3°)  $P(X = 0) = 0,6 \times 0,6 \times 0,6 = 0,216$

4°)  $P(X \leq 2) = 1 - P(X = 3)$   
 $= 1 - 0,4 \times 0,4 \times 0,4$   
 $= 0,936$



# Exercice 43 page 158

1°) 4 questions comportant chacune 4 propositions : 16 branches.

$$2^\circ) P(X = 4) = \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} = \frac{1}{256}$$

$$\begin{aligned} 3^\circ) P(X \geq 2) &= 1 - P(X = 0) - P(X = 1) \\ &= 1 - \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} - 4 \times \frac{1}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \\ &= 1 - \frac{81}{256} - \frac{27}{64} \\ &= \frac{67}{256} \end{aligned}$$