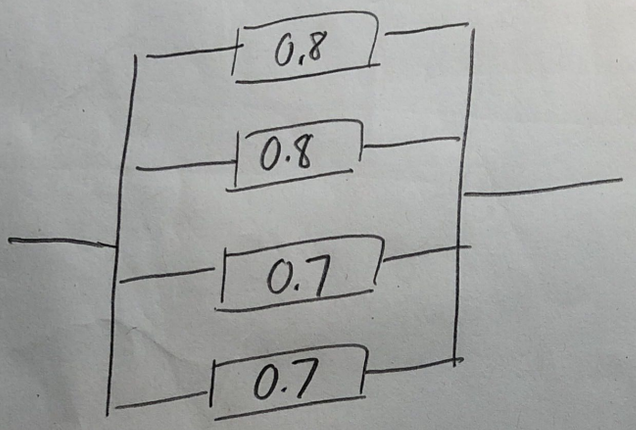
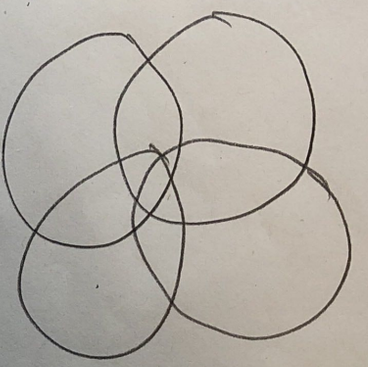
Kim Victor
Groupe 4

$i = 1, 2, 3, 4 \qquad P(F_1) = P(F_2) = 0.8 \quad P(F_3) = P(F_4) = 0.7$



indépendants



a) $P(F) = P(F_1 \cup F_2 \cup F_3 \cup F_4)$

$= P(F_1) + P(F_2) + P(F_3) + P(F_4) - P(F_1 \cap F_2) - P(F_1 \cap F_3)$
$- P(F_1 \cap F_4) - P(F_2 \cap F_3) - P(F_2 \cap F_4) - P(F_3 \cap F_4)$

$= 0.8 + 0.8 + 0.7 + 0.7 - \underset{0.64}{P(F_1)P(F_2)} - \underset{0.56}{P(F_1)P(F_3)}$

$- \underset{0.56}{P(F_1)P(F_4)} - \underset{0.56}{P(F_2)P(F_3)} - \underset{0.56}{P(F_2)P(F_4)} - \underset{0.49}{P(F_3)P(F_4)}$

$= \boxed{0.37}$ nombre négatif trouvé erreur
on va dire c'est 0.37

b) $P(F/G) = \dfrac{P(F \cap G)}{P(G)} = \dfrac{0.37}{0.7} = \boxed{0.53}$