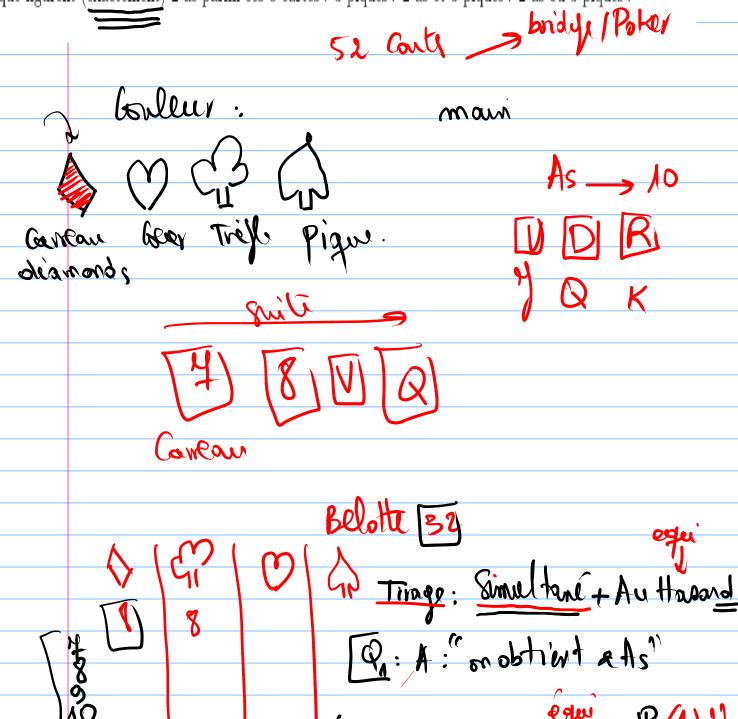


On tire 8 cartes <u>simultanément</u> et au <u>hasard</u> dans un jeu de 32 cartes. Quelle est la probabilité pour que figurent (exactement) 2 as parmi ces 8 cartes? 3 piques? 2 as et 3 piques? 2 as ou 3 piques?



$$\frac{8}{100} = \frac{100}{100} = \frac{$$

P(A) =
$$\frac{Gad(A)d}{Gad(A)} = \frac{\binom{4}{2} \cdot \binom{8}{6}}{\binom{32}{2}}$$

cond(A) = $\frac{\binom{3}{2}}{\binom{32}{2}}$

B) on the 3 Gartes Piques exactements

P(B) = $\frac{\binom{3}{2} \cdot \binom{24}{5}}{\binom{32}{2}}$

C = on the 2 As et 3 Piques (exactements)

P(C) = $\binom{3}{2} \cdot \binom{4}{2} \cdot \binom{24}{4}$

As pique \in Tiraje $\binom{3}{2} \cdot \binom{4}{2} \cdot \binom{24}{4}$

As pique \notin Tirage $\binom{3}{2} \cdot \binom{4}{2} \cdot \binom{24}{4}$

As pique \notin Tirage $\binom{3}{2} \cdot \binom{4}{2} \cdot \binom{24}{3} \cdot \binom{32}{2}$

As pique \notin Tirage $\binom{32}{2} \cdot \binom{4}{3} \cdot \binom{24}{3} \cdot \binom{32}{3} \cdot \binom{32$