

Exercise 1

Calc. : ✗

Two brothers are playing darts. The probability that Kevin wins against his older brother is $\frac{1}{4}$.
The brothers play four consecutive games of darts.
Show that the probability that Kevin wins exactly two games is six times greater than him winning both the first and second games and then losing the third and fourth games played.

5 marks

Exercise 2

Calc. : ✗

Deux frères jouent aux fléchettes. La probabilité que Kevin gagne contre son frère aîné est de $\frac{1}{4}$.
Les frères jouent 4 tours d'affilée.
Montrer que la probabilité que Kevin gagne exactement deux matchs est 6 fois plus élevée que si Kevin gagne exactement le premier et le deuxième tour.

5 marks