Exercise 1	Calc. : 🗡
We throw a coin three times in a row to see how many heads or tails we get. Consider the	
following events:	
$A: \hat{n}$ We get at least two heads $\dot{z}$ .	
$B: n$ We get tails less than three times $\dot{z}$ .	
$C: \hat{n}$ We get exactly three heads or exactly three tails $\dot{z}$ .	
Verify if the events are independent of each other :	
1. Are A and B independent events?	3 marks
2. Are A and C independent events?	3 marks
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3. Are B and C independent events?	3 marks

Exercise 2	Calc. : 🗡	
Six sprinters compete against each other in a final. How many different arrangements could we	4 marks	
have on the podium? (The podium consists of a gold medal winner, a silver medal winner and a		
bronze medal winner).		

Exercise 3	Calc. : >
1. Find the equation of the tangent line to the function $f$ at the point (1,3), given: $f(x) = x^2 - 4x + 6$ .	5 marks
2. <u>Accurately</u> draw the tangent to the function on the accompanying graph.	2  marks
6	
5	
4	
3	
2	
-3 -2 -1 0 1 2 3 4 5 6 7	

