Exercise 1	Calc. : 🗸			
A post is held by a tensioner, according to the figure below.				
Tendeur Nouveautendeur Nouveautendeur				
From the turnbuckle anchor point, located 18 meters from the base of the post ("Poteau"), the top of the post can be seen at a 36ř angle.				
1. What is the height of the post ("Poteau")? (round to 2 d. p.)				
2. What is the length of the tensioner ("tendeur")? (round to 2 d. p.)				
In the rest of the exercise, we consider that the post has a height of 13.08 meters.				
3. A new tensioner ("Nouveau tendeur") is anchored 6 meters closer to the post. What angle does it make with the horizontal?	3 marks			
Exercise 2 In two classes A and B the same test was given. The maximum score was 10. The results are below. Class A.	Calc. : 🗸			

score	absolute frequency
1	2
3	1
5	6
8	2
10	1

Class B.

There are 6 students in this class. One of them got a 10, four students scored 5, and one scored 4.

1. How many students are there in class A?		2 marks
2.	Calculate the mean of both classes. (round to 3 d. p.)	2 marks
3.	Calculate the standard deviation of class B. (round to 3 d. p.)	3 marks
4.	What is the meaning of a standard deviation?	2 marks

Exercise 3				Calc. : 🗸
A statistical survey has shown that 12% of the athletes of a given sport use a certain doping				
substance. A lab offers a te	substance. A lab offers a test.			
This test is positive in	n 95% of all cases in v	which athletes have ta	aken the doping substance.	
Unfortunately, this te	est is also positive in 2	2% of all cases in whi	ich athletes have not taken	
the drug.				
Give your results in percen	tage.			
We define the following eve	ents:			
T: athlete tested posi	tive			
D: athlete taken doni	nœ			
D. admete taken dopi	115			
1. Illustrate the above da	ta by completing the	table below or by usi	ng a tree diagram.	3 marks
	···· ·· · · · · · · · · · · · · · · ·			
	D			
Т		176		
		110		
	1 200	8 800	10.000	
	1 200	8 800	10 000	
An athlete is randomly sele	ected			
The admeter is functing set	letted.			
2. Give the probability that the test of the athlete is positive				3 marks
				0 11101115
3. The test of the athlete is positive. Calculate the probability that the athlete has really used				3 marks
the doping substance.				