MATH-331 Intro. to Real Analysis Team test 02	Pierre-Olivier Parisé Fall 2021, 20/10/2021			
Name of the members of the team:				
Team name (if any):				

Question:	1	2	Total
Points:	10	10	20
Score:			

Instructions: You must answer all the questions in teams of 3 and hand out one copy per team. You are allowed to use the lecture notes only. No other tools such as a cell-phone, a calculator, or a laptop. Only your pen and eraser. The space between the questions are there to write the final versions of your answers.

QUESTION 1	(10	pts
- 90	(1

Let $f:[0,2]\to\mathbb{R}$ be the function defined by $f(x)=x^3+2x-1$ and let L=0. Find the interval $[a_3,b_3]$ constructed in the proof of the Intermediate Value Theorem. (Exceptionnally, you can use the calculator to do some of the calculations.)

 Qui	ESTION 2			(10 pts)
Let $S, T \subseteq \mathbb{R}$ be two open sets.		' is an open set.	[Hint to start:	\ _ /

the situation and what you want to prove with a picture.]