What is the different between the correct statement in defaition of Riemann integrable

and the incorrect statement: ?

(with this incorrect statement, 8 out of 10 points will be deducted in Questian 6(a) in the midtern.)

Note that in a logical statement involving several guardifiers: "Y" & "I", the order of "Y" & "I" cannot be interchanged!

In the incorrect statement above, one can only required to faid one LER s.t.

15(f,8)-L < E is correct

(after given E>O, P and so on).

But it is trivially satisfied, because S(f,8) is a real number, and taking  $L = S(f,8) \in \mathbb{R}$ , we have  $|S(f,8) - L| = 0 < \varepsilon$ 

So every function of satisfies the incorrect statement, which is clearly a big " mistake.