## Lec. 23 - Two kinds of integrals

Thursday, June 6, 2024

10:22 PM

Triguediente,  
Poposition 5 Arry Riegnan integrable function is bounded  
Proof: Since 
$$f \in \mathcal{B}_{1}(z_{1}, b_{2}) \ni (p_{1}, b_{2}) \mid p_{1}(p_{2}, b_{2}, b_{2}) \mid p_{2}(p_{2}, b_{2}, b_{2}) \mid p_{2}(p_{2}, b_{2}, b_{2}) \mid p_{2}(p_{2}, b_{2}) \mid$$

• let 
$$M := \max\{\dots, |f(i)| \dots \}$$
  
 $\Rightarrow -\frac{1}{2} - M A_i \leq f(x)A_i \leq 1 + MA_i$   
 $\therefore \frac{1}{A_i} \left(-\frac{1}{2} - MA_i\right) \leq f(x) \leq \frac{1}{A_i} \left(1 + MA_i\right)$  • doesn't depend on  $X$