Dec. 27, 2023 Show All Work Name	
Riemann-Stieltjes integral of bounded function f wit	The respect to α over the interval $[a,b]$
Let α be a	function on $[a, b]$.
Let $\mathcal{P} =$	be a partition of $[a, b]$.
$\Delta \alpha_j =$	
Upper Sum $U(\mathcal{P}, f, \alpha) =$, where $M_j =$
Lower Sum $\mathcal{L}(\mathcal{P}, f, \alpha) =$, where $m_j =$
Upper Integral $\overline{\int}_a^b f(x) d\alpha =$	
Lower Integral $\underline{\int}_{a}^{b} f(x) d\alpha =$	
f is called Riemann-Stieltjes integrable if	, which is called
the Riemann-Stieltjes integral of f with respect to α over	ver $[a, b]$ and denoted by
The partition \mathcal{P}^* is a refinement of the partition \mathcal{P}_2 if	
The partition \mathcal{P}^* is a common refinement of the partition	ons \mathcal{P}_1 and \mathcal{P}_2 if
If \mathcal{P}^* is a refinement of \mathcal{P} , then the relations for Uppe	er Sums, Lower Sums, Upper Integral, and Lower
Integral of f are	
≤ <u>≤</u>	\leq \leq \leq
If f is Riemann-Stieltjes integrable with respect to α	over $[a, b]$, then for every , there is a
partition \mathcal{P} such that	

Quiz 9, Advanced Calculus I, Yung Fu Fang