Test Four Topics

**State the definitions and use them in proofs.**
- Integral defined using Darboux (upper and lower) sums
- Refinements of partitions
- Integral defined using Riemann sums
- Logarithms, exponentials

**State the theorems and use them in proofs.**
- Theorem on Darboux sums for refinements
- Basic integral properties, including interval additivity, linearity, monotonicity
- Integrability of continuous functions, even with finitely many exceptional points
- Integrability of monotone functions
- Fundamental Theorem of Calculus (two theorems)
- Change of variable theorem for integrals of continuous functions, continuously differentiable changes of variable
- Basic properties of logarithms, exponentials