

Exam 2: QVI Thurs June 3 8am
Due Fri " 4 "

Thank You

Content: Lectures 1-17. "Cumulative"

① Cliff Notes from Exam 1

② Fourier

- How is the F.S. different from F.T.?

- Properties of F.S. + F.T.

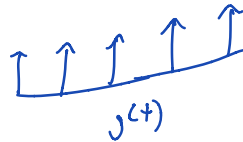
- Frequency Analysis of System

- Link b/w Fourier + LTI Systems

- Think about Limitations of F.T. \Rightarrow Try to take F.T. of $\frac{K}{t}$

③ Sampling

- $f(t) \cdot g(t)$



- Delta Train

- Understand Replicas and Precisely how it arises

- **Aliasing** \rightarrow Replica Overlap How do we combat aliasing?

- Increasing Sampling

- Anti-Aliasing Filter

- Maybe look at Visual Examples of Aliasing.

- "Moire" Aliasing ("shirts")

④ Laplace Transform

Not an
exam, unless
bears ques.

- Why L.T.?
- Relation b/w L.T + F.T.
- " " " and LTI systems

A "Transfer Function" $H(s)$

- Inverse L.T. computation
 - * "Conv - V₂ Method"