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## Math 225 lecture 34 Dec 4th 2023 Couli review stedying hapits, outline the final exam, discuss content for the final & give class time for SPOT surveys. Class Q: How will the experience of the midtern impact your studying for the final? Today! - discuss what content from last neck is valid for the - cover format & approx quant - review study my strategies - the big list of things to know - time for spot surveys - 15 min break to complete spot surveys (me leave room) formut (approximate at this time for Q counts) Same as midtern no books/notes/calculator etc. - scrap provided - only write on designated pages - if you have grestrons ask about 6 long answer ±1. - show work - mule sire your answers are clear

- skid focused.



- 10 MC ±2
  - 2 marks each
  - no part marks
  - 1 correct onsuer (Please be clear!)

  - 7 pensues per Q concept focused
  - rend carefully
  - Gruess it you don't know!!!!
- like before try to find yourstedy hubsts I like the 1-2-3 system (see midtem review notes, out 23rd for details)

Differences from the midtern, No promises about proofs however, all definition based and algorithmiz (think as in question to verify that x is a \_\_\_ 3 style of thing)

from last week

need to know	don't need to know
- Comply	
buste de minor	- alternative definitions, digraph,
- basic definitions like, graph,	- alternative definitions, digraph, multigraph, subgraph, etc.  - path cointany (my error, in ince wort gover 17)
connected, path, etc.	- puth country (my error is we
	wont (over 17)
- detrition of spectral rendicis	- proofs of any kind from this section
- detrition of spectral renders - how to build an adj. matrix Ac.	- all extrancors content from
- condition for graph isomorphism	forday not methoned to the left.

'The list" again not necessarily	exhaistre but pretty close!
- systems of linear equations	- invertiblity
- subspaces	- Change of basis
-row/col/null space	- PDER
- determments	- Pa-B - dorgonalization
- complex #'s	- octorde at PR"
- eigenstiff	- Inner products (& their spaces)
- values, vectors & spaces	- defautions (properties
- Markov matricles	- norm/ distance/ orthogonal
- abstract v. spaces	- projections
- Orthogonality	- Crash theory
- G-S	- only what discussed about
- QR faiter zutron	
- orth, complements	For each topse ideally you
- Prosections	will know definitions pasor
- orth dragonalization	properties, & the related
- Least squares solutions (LSS	competations you can do withit
- direct	
- 22	
- nomal system	
Singler value docomposition (SVD)	
- linear transformations	
- definition of Inecrity	
~ [T] DEB	
- Composition	
- coordinate vectors [V]B	
- busi3	
- Remol / range	
- one-to-one (onto	