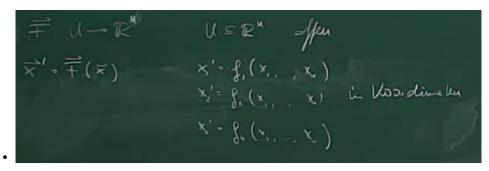
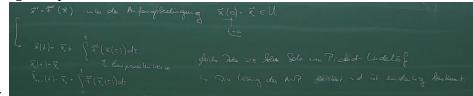
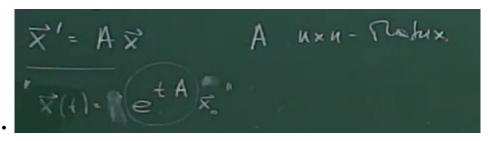
## **DGL System**



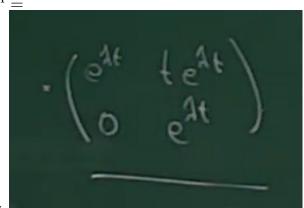
Anfangswertproblem



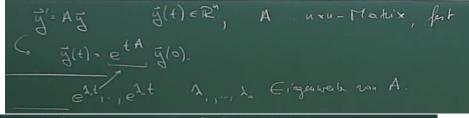
## **Lineares System**



•  $e^{t*A} =$ 

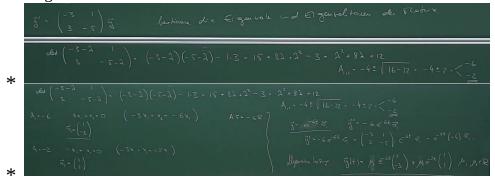


–  $\lambda$  [[Eigenwerte]] von A

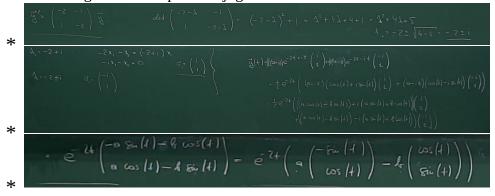


J'-Aj j'eR" dan gruigh en 'N linear hunskein grige logegen j, ..., it in fieden.
An dien loss) sig dans die ellgenein last g hij(+)-M, J,(+)+ Mu ij,(+) shee for
in inde Eigenvert ), in in pelangem Eigensten v, selant eig lost g , e/ht v.

- Beispiele:
  - reelle Eigenwerte



- \* jede Anfangsbedingung lösbar durch Wahl von  $\mu_1,\mu_2$
- komplexe Eigenwerte
  - \* zweite Eigenwert komplex konjugiert



doppelter Eigenwert

## **Inhomogenes lineares System**

[[Differentialgleichungen]]