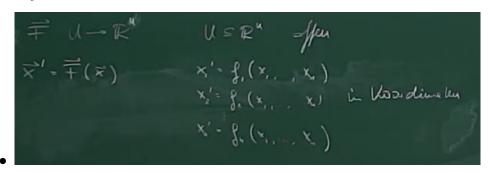
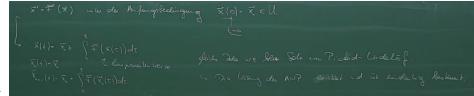
DGL System



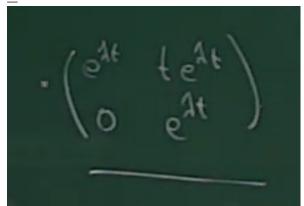
• Anfangswertproblem



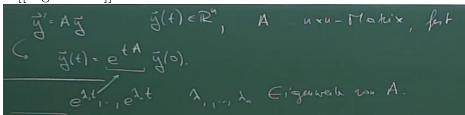
Lineares System



 \bullet $e^{t*A} =$

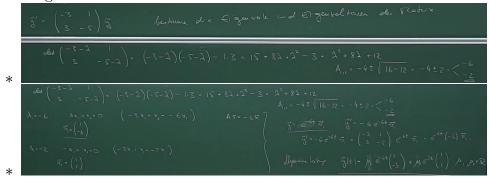


 $-\lambda$ [[Eigenwerte]] von A

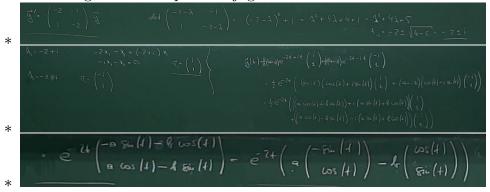


J'-AJ JER" dans genigt en 'N linea mollien gige losegen J, , , y zu fieden. In dien lost sie dans die obligencie (5x-g b J(+)- p, J(+) + p, J, (+) sheebe. In jehr Eigenvert 1, d in pelangen Eigenelter vij selant eie lose J, et i vij.

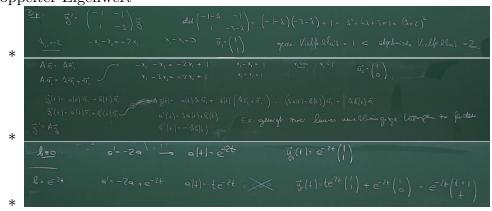
- Beispiele:
 - reelle Eigenwerte



- *jede Anfangsbedingung lösbar durch Wahl von μ_1,μ_2
- komplexe Eigenwerte
 - * zweite Eigenwert komplex konjugiert



- doppelter Eigenwert



Inhomogenes lineares System

[[Differentialgleichungen]]