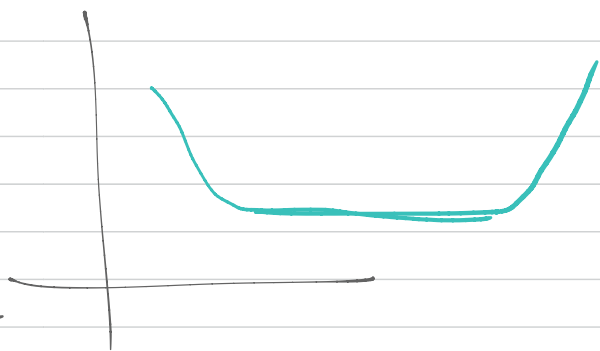
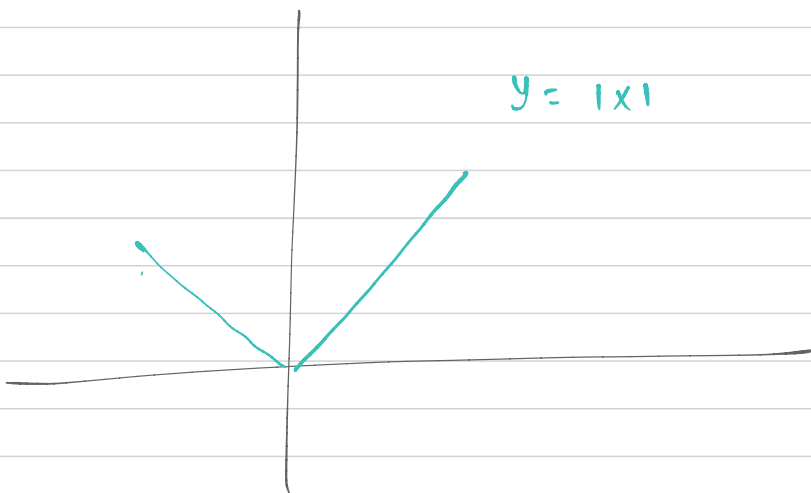
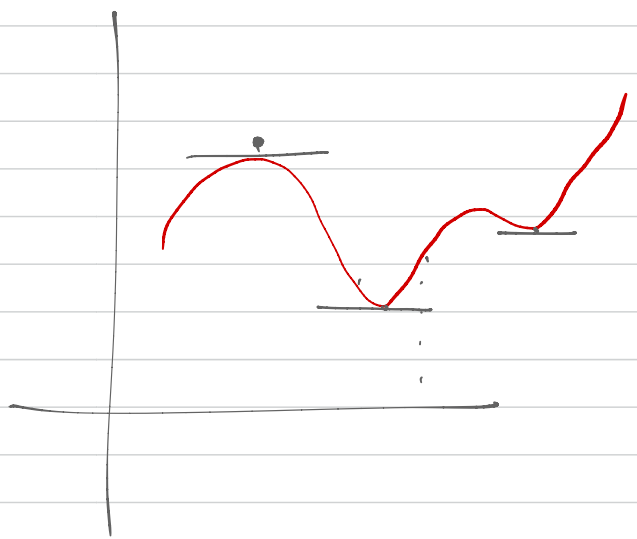
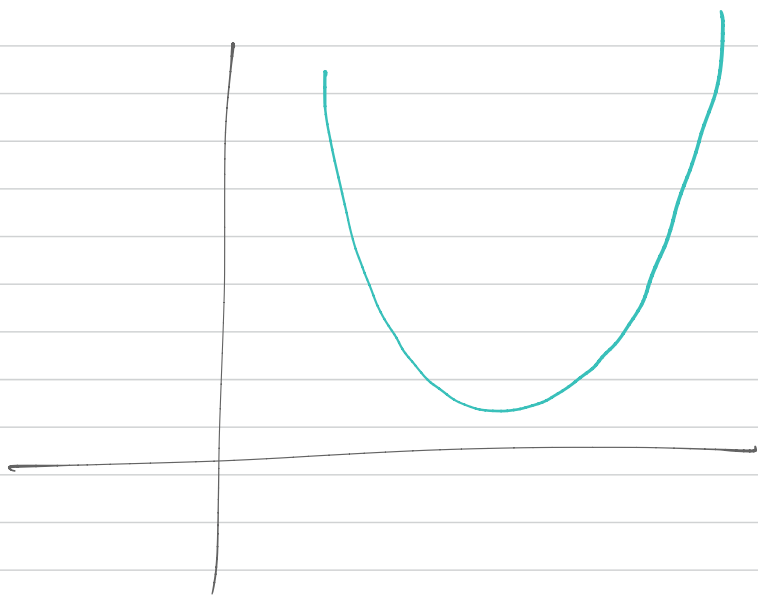
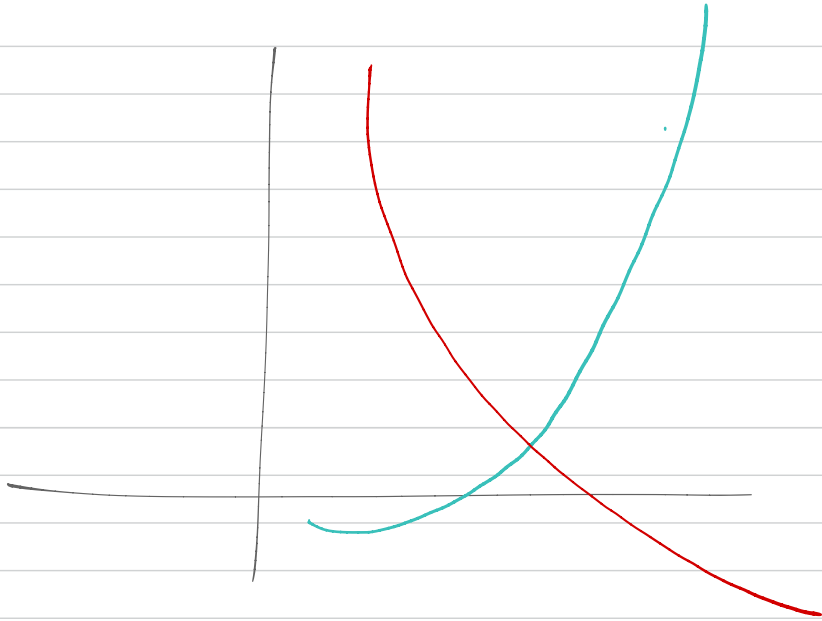
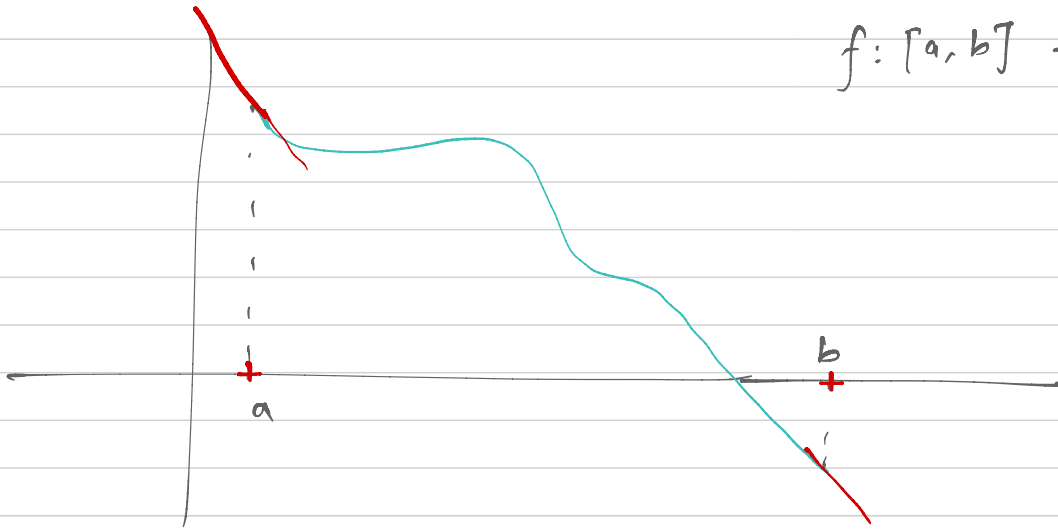


Locture 22



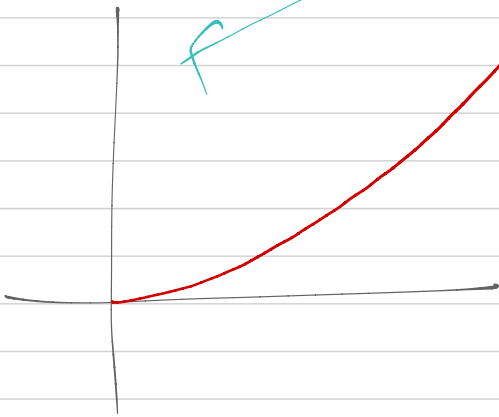
$$f: [a, b] \rightarrow \mathbb{R} = (-\infty, \infty)$$



$$\frac{du}{dt} = Au \rightarrow$$

$$u_1 = e^{\lambda_1 t} \begin{bmatrix} a \\ b \end{bmatrix}, \quad \lambda_1 > 0$$

$$u_2 = e^{\lambda_2 t} \begin{bmatrix} c \\ d \end{bmatrix}, \quad \lambda_2 < 0$$



$$Ax = \lambda x$$

