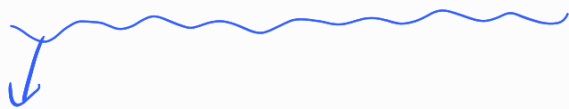


$$\lambda = \pm \omega_n \bar{j}$$

$$x(t) = ae^{xt}$$

$$= a_1 e^{\omega_n \bar{j}t} + a_2 e^{-\omega_n \bar{j}t}$$



1. 2nd ODE

$$y = e^{\lambda x} \rightarrow \lambda^2 + A\lambda + B = 0$$

$$i) D > 0 \rightarrow y = C_1 e^{\lambda_1 x} + C_2 e^{\lambda_2 x}$$

$$ii) D < 0 \rightarrow y = e^{\lambda x} (C_1 \cos \mu x + C_2 \sin \mu x)$$

$$\lambda = \pm \omega_n \bar{j} \rightarrow \text{푸리에 해}$$

따라서 ii)번 식을 써야 하는 게 아닌가요?