

Welcome to ODEs PILOT!

webpage: jhu-ode-pilot.github.io/SU24/ 

3rd order

$$Ay^{(3)} + By^{(2)} + Cy' + D = 0$$

char. eq. $Ar^3 + Br^2 + Cr + D = 0$

\uparrow
 $r \leftarrow \text{roots}$

$$r_1 \sim r_3$$

$$C_1 e^{r_1 t} + C_2 e^{r_2 t} + C_3 e^{r_3 t}$$