

7.2.2.2.2.2

$$y'' + 4y = 3x \cos x$$

$$y = e^{px} \rightarrow \cancel{p^2} p^2 + 4 = 0 \quad \left\{ \begin{array}{l} p_1 = \alpha + i\beta = 0 + 2i \\ p_2 = \alpha - i\beta = 0 - 2i \end{array} \right.$$

$$\dots \quad \alpha = 0 \quad \text{e} \quad \beta = 2$$

Ans complementos à dada p.1

$$u = e^{\alpha x} (C_1 \cos \beta x + C_2 \sin \beta x)$$

$$u = C_1 \cos 2x + C_2 \sin 2x$$