

c)

1. TH Peano

2. $t^2 x'' - tx' + 4x = \ln t, \quad t > 0 \quad (1)$

a) D.v. $t = e^s$ transformeer (1) into-o es de forma

$$y'' + a_1 y' + a_2 y = S \quad (2)$$

b) TH princiend sel es lin. de ordin sup o coelf. et.

c) Sol gen (2)

d) Sol gen (1)

③ $F: \varphi(.,.)\} : I(\mathbb{R}) \subseteq \mathbb{R} \rightarrow \mathbb{R}, \quad z \in \mathbb{R}, \text{ pol max o pli}$

$$x' = x^2 - \frac{x}{t} - \frac{1}{t^2}, \quad x(6) = -1$$

a) Def coerent max, $\varphi(.,.) = ?$

b) TH princiend def sel in rap a val initial aq van indep.

c) $\varphi(t, -1) = \frac{1}{t}, \quad I(-1) = ?$

d) $D_z \varphi(t, -1) = ?$

④ $2x + y - p_2 - z = 0, \quad x = 1, \quad z = y.$