Curs08 - Rezolvare

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Exerciţiu 1 și 2. Exerciţiu 4

Exerciţiu 1 și 2.

$$irl_{(PC)} \times (0) = 1, \ x'(0) = 2$$

$$x(1) = C_{\Lambda} \cos t + C_{2} \sin t + t^{2} + t - 1$$

$$x(0) = C_{\Lambda} \cos 0 + C_{2} \cos t + 2t + 1$$

$$x'(1) = C_{\Lambda} \cdot (-\cos t) + C_{2} \cdot \cos t + 2t + 1$$

$$x'(1) = C_{\Lambda} \cdot (-\cos t) + C_{2} \cdot \cos 0 + 1 = C_{\Lambda} + 1 = 2 = 1$$

$$x'(1) = C_{\Lambda} \cdot (-\cos t) + C_{2} \cdot \cos 0 + 1 = C_{\Lambda} + 1 = 2 = 1$$

$$x_{10} = C_{\Lambda} \cdot (-\cos t) + C_{2} \cdot \cos 0 + 1 = C_{\Lambda} + 1 = 2 = 1$$

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$$x_{10} = C_{\Lambda} \cdot (-\cos t) + C_{\Lambda} \cdot (-\cos t)$$

Exerciţiu 4

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x'' + 4x = t \cos 2t
x = \{\lambda_1 t^2 + \lambda_0 t\} \cos 2t + \{\beta_1 t^2 + \beta_0 t\} \cos 2t
x' = \{\lambda_1 t^2 + \lambda_0 t\} \cos 2t + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t\} (-2 x \cos 2t) + \{\lambda_1 t^2 + \lambda_0 t^2 + \lambda_0
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