$$y''' - 2y'' + y' = 0$$

$$\lambda^3 - 2\cdot\lambda^2 + \lambda = 0$$

$$\lambda\cdot(\lambda^2 - 2\lambda + 1) = 0$$

$$\lambda^1\cdot(\lambda - 1)^2 = 0$$

$\lambda_1 = 0$, nás. 1

$\lambda_2 = 1$, nás. 2

F.S.Ř.: $\varphi_1(t) = 1$, $\varphi_2(t) = e^t$, $\varphi_3(t) = t\cdot e^t$

$Y_H \dots y(t) = C_1 + C_2\cdot e^t + C_3\cdot t\cdot e^t$,

$C_1 \in \mathbb{R}$, $C_2 \in \mathbb{R}$, $C_3 \in \mathbb{R}$.