Kolokwium poprawkowe I.

2024-02-01

1. $y' - \frac{1}{3t}y = y^4 \ln t$
2. $(y^5 - 8ty^3 + 4ty^2)dt + (3ty^4 - 4t^2y^2 + 1)dy = 0$
3. $y'' + 9y = 20e^{-t} - 26e^{2t}, \quad y(0) = y'(0) = 0$
4. $t^2y'' - 5ty' + 9y = t^4 - 2t^2$
5. $y''' + y'' + y' + y = t + 1 - 5e^{-2t}$
6. $\mathbb{Y}' = A\mathbb{Y}$, gdzie $A = \begin{bmatrix} -2 & 0 & 0 \\ 0 & -2 & 6 \\ 0 & -1 & 5 \end{bmatrix}$