

# Kolokwium II

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1.  $y^{iv} - y'' = 12t - 6$
2.  $y'' + 4y = 10e^{-t} - 8e^{-2t}$ ,  $y(0) = 0$ ,  $y'(0) = 6$
3.  $y'' - 2y' + 2y = 2e^t \cos t$ ,  $y(0) = y'(0) = 0$
4.  $t^2 y'' - ty' + y = 6t \ln t$
5.  $t^3 y''' + 2t^2 y'' - ty' + y = 0$
6.  $\mathbb{Y}' = A\mathbb{Y}$ , gdzie  $A = \begin{bmatrix} 7 & 1 \\ -4 & 3 \end{bmatrix}$