

MAT 244 (LO101), Quiz #3

Problem 1: Solve

$$y^{(4)} - y'' = t.$$

Problem 2: Solve

$$\vec{x}' = \begin{pmatrix} 3 & 4 \\ 1 & 3 \end{pmatrix} \vec{x}$$

and sketch the phase portrait.

(The eigenvalues are 1 and 5).