

Math 106A. Fall 2008. M. Zhitomirskii
Homework 6. 1 problem. Due on Friday, November 14, 9:30 am

Find a basis of the vector space of all solutions of the system
 $X' = AX$ with

$$A = \begin{pmatrix} 5 & 1 & 0 \\ a & 2 & 0 \\ b & c & 3 \end{pmatrix}$$

where a, b, c are real parameters. Consider ALL possible cases.