

6. Písemka z LA II - 5.4.2013
Varianta A

1. Spočtěte determinanty

$$(a) \begin{vmatrix} 19 & 57 & 0 & 0 & 0 & 0 & -2 \\ 1 & 2 & 0 & 0 & 0 & 0 & 0 \\ -2 & 4 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 3 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 1 & 1 & 8 \\ 0 & 0 & 0 & 2 & 1 & 1 & -7 \\ 0 & 0 & 0 & 2 & 3 & 2 & 0 \end{vmatrix} \quad [4]$$

$$(b) \begin{vmatrix} a & 0 & 0 & 0 & 0 & b \\ 0 & b & 0 & 0 & a & 0 \\ 0 & 0 & a & b & 0 & 0 \\ 0 & 0 & b & a & 0 & 0 \\ 0 & a & 0 & 0 & b & 0 \\ b & 0 & 0 & 0 & 0 & a \end{vmatrix} \quad [2]$$

6. Písemka z LA II - 5.4.2013
Varianta B

1. Spočtěte determinanty

$$(a) \begin{vmatrix} -7 & 3 & 2 & 0 & 0 & 0 & 0 \\ 8 & 4 & 2 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 3 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 2 & 1 & 1 \\ 0 & 0 & 0 & 0 & 2 & 3 & 2 \\ -2 & 0 & 0 & 0 & 0 & 19 & 57 \end{vmatrix} \quad [4]$$

$$(b) \begin{vmatrix} b & 0 & 0 & 0 & 0 & a \\ 0 & a & 0 & 0 & b & 0 \\ 0 & 0 & a & b & 0 & 0 \\ 0 & 0 & b & a & 0 & 0 \\ 0 & b & 0 & 0 & a & 0 \\ a & 0 & 0 & 0 & 0 & b \end{vmatrix} \quad [2]$$