MATHEMATICS 2

Thursday March 8 2018

Weekly test number 2

Exercise 1: Calculate the determinant of the following matrix:

$$A = \begin{pmatrix} 1 & -1 & 0 \\ 0 & 2 & 1 \\ 4 & -1 & 3 \end{pmatrix}$$

Exercise 2: Given the following matrices

$$A = \begin{pmatrix} 2 & 3 & -1 \\ -1 & 4 & 0 \\ 1 & 0 & -2 \end{pmatrix} \quad \text{and} \quad B = \begin{pmatrix} -1 & 0 & 3 \\ 1 & -2 & 4 \\ 0 & 1 & 2 \end{pmatrix}$$

determine, if they exist, $A \cdot B$ and $B \cdot A$. Is it $A \cdot B = B \cdot A$?