Mathematics 1553

Quiz 7 Prof. Margalit Section HP1 / HP2 23 October 2015

Compute the determinant of the following matrix:

$$\det A = 0 - \begin{vmatrix} -1 & 2 \\ 5 & 0 \end{vmatrix} - 2 \begin{vmatrix} 3 & 1 \\ 5 & 0 \end{vmatrix} + (-1) \begin{vmatrix} 3 & 1 \\ -1 & 2 \end{vmatrix} = 0 - 2 \cdot (-5) + (-1) \cdot 7$$

Compute the determinant of the following matrix:

$$B = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 8 & 5 & 0 & 0 \\ -2 & -9 & 2 & 0 \\ 7 & 8 & -1 & 7 \end{pmatrix}$$

 $B = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 8 & 5 & 0 & 0 \\ -2 & -9 & 2 & 0 \\ 7 & 8 & -1 & 7 \end{pmatrix}$ matrix, det B = product of its diagonaldet B = 1.5.2.7=70

Compute the determinant of the following matrix:

$$C = \begin{pmatrix} 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$