MATHEMATICS II

Thursday March 29 2018

Weekly test number 4

Exercise 1: Determine the rank of the following matrix.

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

Exercise 2: Study the following linear system on the varying parameter λ.

$$\begin{cases} 2x + \lambda y + 8z = 4 \\ -x + 2y + \lambda z = 1 \end{cases}$$