

MATH1009 – Quiz 2
Wednesday, October 26, 2016
Instructor: Abuzer Yakaryilmaz

Name and surname:

Student number:

Questions

(20 minutes)

Let A be the following matrix:

$$\begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 5 \\ 1 & 3 & 3 & 4 \\ 2 & 2 & 3 & 4 \end{pmatrix}.$$

1. (50 points) Evaluate $\det A$ and show each step clearly.
2. (50 points) If $B = \sqrt{2}A$, then evaluate $\det B$ by providing explanation(s) to your answer.

Remark that any numeric answer without any correct explanation does not get any point!