## Quiz 5

MA 262<br>Artur's Class

February 21, 2012

## Problem 1

Put

$$
A=\left(\begin{array}{llll}
1 & 2 & 3 & 4 \\
0 & 5 & 6 & 7 \\
0 & 0 & 8 & 9 \\
0 & 0 & 0 & 1
\end{array}\right)
$$

Compute $\operatorname{det}(A)$

## Problem 2

Recall $C(\mathbb{R})$ is the real vector space of continuous functions on $\mathbb{R}$. The polynomials of degree $\leq 2$ form a subset. Show that this is also a subspace.

## Problem 3

What about for polynomials of degree $=2$ ? Explain.

