# Quiz 6

#### MA 262 Artur's Class

#### February 28, 2012

### Problem 1

$$A = \left(\begin{array}{cc} 2 & 0\\ 0 & 0 \end{array}\right)$$

Compute nullspace(A).

## Problem 2

A =	(	0	0	
		0	0	)

Compute nullspace(A).

# Problem 3

$$A = \left(\begin{array}{cc} 2 & 0\\ 0 & 1 \end{array}\right)$$

Compute  $\operatorname{nullspace}(A)$ .

#### Problem 4

Consider the differential equation

$$y'' + 2y' - y = 1.$$

- (a) Write down the solution space in set notation. (Do not solve the equation.)
- (b) Is this solution space a subspace of  $C(\mathbb{R})$ .