

**Math310: Exam 1**  
**Fall 2008**

**Problem 1.** (40pts) Let  $A = \begin{pmatrix} 1 & 2 & 3 \\ -1 & 0 & -3 \\ 2 & 4 & 7 \end{pmatrix}$ .

- a) Compute the LU factorization of  $A$ .
- b) Find  $\det A$ .
- c) Find  $A^{-1}$ .

**Problem 2.** (20pts) Let  $B = \begin{pmatrix} \lambda - 3 & 12 & -1 \\ 0 & \lambda + 2 & \lambda \\ 0 & 0 & 5 \end{pmatrix}$ .

- a) For what values of  $\lambda$  does matrix  $B$  have an inverse?
- b) How many solutions will the system  $Bx = 0$  have if  $\lambda = 2$ ? Justify your answer.
- c) How many solutions will the system  $Bx = 0$  have if  $\lambda = -2$ ? Justify your answer.

**Problem 3.** (20pts) Find all solutions to the linear system

$$\begin{array}{rclcl} x_1 + 7x_2 + 3x_3 + 2x_4 & = & 1 & & \\ -x_1 + x_2 - 2x_3 + x_4 & = & -2 & & \\ 2x_1 - 2x_2 + 7x_3 + 7x_4 & = & 1 & & \end{array}$$

**Problem 4.** (20pts) Determine if the following sets are subspaces of  $\mathbb{R}^2$ . Justify your answer.

- a)  $S = \{(x, y)^T \mid y = 5x\}$ ;
- b)  $S = \{(x, y)^T \mid y^2 = x^2\}$ .

# Custom Published Math 310 Elementary Algebra

**JA Banks**



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