

Math 228: Intro to Lin Alg & Diff Eqns

Quiz 5 Feb. 28, 2002

Name: _____

Section: _____

1. a) Find a basis of the row space of the matrix $A = \begin{bmatrix} 1 & 2 & -1 & 3 \\ -2 & -3 & 5 & -2 \\ 3 & 7 & 2 & 15 \\ 1 & 3 & 4 & 9 \end{bmatrix}$

- b) Find the dimension of $NS(A)$.

2. Determine whether $B = \{1 + x + x^2, 1 - x + x^2, 1 + x - x^2\}$ is a basis of P_2 , the vector space of polynomials of degree ≤ 2 .