Math 308A Winter 2002 Quiz 1

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Math 308A Quiz #1

Solve the equation Ax = w. Make clear which are the free variables.

Write the general solution x as a vector in parametric form.

Write w as a linear combination of the columns of A. (This should be with specific numbers, no variables.)

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Problem 2: Short answer. Should require no calculation.

(a) Let $w_1, w_2, ..., w_p$ be in R^{*}. Define Span $\{w_1, w_2, ..., w_p\}$.

(b) In Problem 1, are the columns of A in the span of w?

Yes _____ No _____

(c) In Problem 1, is the first column of A in the set spanned by the last 4 columns?

Yes _____ No _____