

MATH 54 – QUIZ 2

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Name: _____

Instructions: Greetings from New York! You have 20 minutes to take this quiz, for a total of 10 points. After you hand in your quiz, you can just leave. Good luck, and remember: I've got one less row-reduction, one less row-reduction...

1. (5 points) Find the general solution of the linear system corresponding to the following **augmented** matrix.

$$\left[\begin{array}{cccc} 1 & 3 & -1 & 7 \\ 2 & -1 & 5 & 0 \\ -12 & 3 & -6 & -6 \end{array} \right]$$

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2. (5 points) Determine if \mathbf{b} is a linear combination of the vectors formed from the columns of the matrix A .

$$A = \begin{bmatrix} 2 & -3 & 5 \\ 1 & -2 & -1 \\ 3 & -4 & 11 \end{bmatrix}, \mathbf{b} = \begin{bmatrix} 5 \\ -5 \\ 15 \end{bmatrix}$$