

Name _____

Mathematics 205: Linear Algebra

Fall Semester 2004

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Quiz #17

October 13

Suppose $\mathbf{b} = \begin{bmatrix} 3 \\ 5 \\ 2 \end{bmatrix}$ and the matrix $A = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 1 & 4 \\ 0 & 1 & 4 \end{bmatrix}$.

Determine whether or not \mathbf{b} is in the column space of A and explain your reasoning.