

Name _____

Mathematics 205: Linear Algebra
Fall Semester 2004
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Quiz #3
September 13

Determine whether or not the vector $\begin{bmatrix} 3 \\ 5 \\ 2 \end{bmatrix}$ is a linear combination of the vectors

$\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$, $\begin{bmatrix} 2 \\ 1 \\ 1 \end{bmatrix}$, and $\begin{bmatrix} 5 \\ 4 \\ 4 \end{bmatrix}$. Explain why or why not.