

Name _____

Mathematics 205: Linear Algebra
Fall Semester 2004
David Haines
Quiz #24
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Find the coordinate vector of \mathbf{x} relative to the basis $\{\mathbf{b}_1, \mathbf{b}_2\}$ if

$$\mathbf{b}_1 = \begin{bmatrix} 1 \\ -2 \end{bmatrix} \quad \mathbf{b}_2 = \begin{bmatrix} 5 \\ -6 \end{bmatrix} \quad \text{and} \quad \mathbf{x} = \begin{bmatrix} -2 \\ 1 \end{bmatrix} .$$