

Quiz 11

Name: _____

Math 568

March 7, 2008

Suppose $\mathbf{v}_1 = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ and $\mathbf{v}_2 = \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix}$.

1. (5 points). Use the Gram-Schmidt process to find an orthogonal basis for the subspace W spanned by \mathbf{v}_1 and \mathbf{v}_2 so that the basis contains the vector \mathbf{v}_1 .