

QUIZ #13, 10/9/07

MATH 54, FALL 2007

Show your work and justify your answers! Feel free to use both sides.

Name:

- (5 pts) Perform the Gram-Schmidt process on $\begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}$, $\begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix}$, $\begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$
- (5 pts) Find an orthonormal basis for the plane given by $x_1 + 3x_2 + 2x_3 = 0$.