MATH 211 – CALCULUS 3
Spring 2006
QUIZ 1

NAME_____

1. Find the norm (maginitude) of the vector $\mathbf{a} = \langle 6, 3, -6 \rangle$.

   $\|\mathbf{a}\| =$

2. Find the unit vector $\mathbf{u}$ in the direction of the vector $\mathbf{b} = \langle -5, 12 \rangle$.

   $\mathbf{u} =$

3. Let $\mathbf{v} = \langle 2, 1, 3 \rangle$ and $\mathbf{w} = \langle -3, 2, 4 \rangle$.

   $3\mathbf{v} - 2\mathbf{w} =$

4. Find a vector $\mathbf{d}$ with norm 2 and parallel to the vector $\mathbf{c} = \langle 4, 3 \rangle$.

   $\mathbf{d} =$