**NAME** _____ **July 13, 2005**

**Math 208 Summer II 2005 Quiz 1** **Score** ___ /20

1. (*2*) Compute $||\langle 2, 3\rangle||$.

2. (*2*) Find any vector orthogonal to $\langle -2, 4, 1\rangle$.

3. (*4*) Find the unit vector parallel to $\langle 1, 3, 2\rangle$.

4. (*4*) Find the angle between $\langle 0, 2, 3\rangle$ and $\langle 2, 1, 0\rangle$.

5. (*4*) Find the equation of the plane through $(1, 2, 3)$ with normal $\langle 4, 5, 6\rangle$.

6. (*4*) Determine the distance between the point $(1, 0, 0)$ and the line that passes through the points $(0, 2, 0)$ and $(0, 0, 3)$.