MATH 311 – CALCULUS 3 Spring 2006 QUIZ 2

NAME

Let $\mathbf{a} = \langle 2, 1, -2 \rangle$; $\mathbf{b} = \langle 0, 3, 4 \rangle$; $\mathbf{c} = \langle 5, -2, 4 \rangle$.

1. $\mathbf{b} \bullet \mathbf{c} =$

2. $\operatorname{comp}_{\mathbf{b}} \mathbf{a} =$

3. Find the cosine of the angle between **a** and **b**.

4. Find the area of the parallelogram determined by ${\bf a}$ and ${\bf b}.$