Quiz 1

MAC 2313-01 $\qquad$ Spring 2010

Full Name:_____ Score: _____

Show all of your work for full credit.

1. Are these expressions meaningful? Do they result in vectors or scalars?

   (a) $(\mathbf{a} \cdot \mathbf{b}) \cdot \mathbf{c}$

   (b) $|\mathbf{a}| \cdot (\mathbf{b} + \mathbf{c})$

2. Find the cross product of $\mathbf{a} = < t, t^2, t^3 >$ and $\mathbf{b} = < 1, 2t, 3t^2 >$.

3. Find the equation of the line through the points $(6, 1, -3)$ and $(2, 4, 5)$