

Quiz 1

MAC 2313

Fall 2006

Full Name: _____

Score: _____

Show all of your work for full credit.

1. Given $\vec{a} = \vec{i} - 2\vec{j} + \vec{k}$ and $\vec{b} = \vec{j} + 2\vec{k}$, calculate

(a) $|\vec{a}|$

(b) $\vec{a} + \vec{b}$

(c) $2\vec{a} + 4\vec{b}$

2. Find the equation of the plane through the point $(-1, -1, 1)$ and with normal vector $\vec{i} + \vec{j} - \vec{k}$.