

**Math 225 : Quiz 1****Sept. 2, 1991**

Show your work on a blank sheet of paper with your name and date at the top (no torn edges). Circle your final answer. You may use a calculator.

1. Find a unit vector in the direction of

$$= -2\mathbf{i} + \mathbf{j} + 2\mathbf{k}$$

2. Find the angle between the vectors

$$= -4\mathbf{i} - 3\mathbf{j} \quad \text{and} \quad = 4\mathbf{i} - 4\mathbf{j} - 2\mathbf{k}$$