

Math 225: Calculus III

Name: _____

Quiz 1 Sep. 6, 2001

Section: _____

1. Given the points $P(-1, 3, 4)$ and $Q(3, 11, 3)$ in space, find a unit vector in the direction of \overrightarrow{PQ} .

2. Let $\mathbf{v} = \mathbf{i} - \mathbf{j} + \mathbf{k}$. Find the values of y so that the angle between \mathbf{v} and $\mathbf{w} = 4\mathbf{i} + y\mathbf{j} - 3\mathbf{k}$ is 60 degrees.