

Quiz 1 Calculus 3 8/29/2012

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Suppose $\mathbf{v} = \langle 8, -4 \rangle$ and $\mathbf{w} = \langle -4, 6 \rangle$. Express $3\mathbf{v} - \mathbf{w}$ in the form $\langle a, b \rangle$.

2. Consider the points $P(1,5,0)$ and $Q(0,7,2)$. Find two unit vectors parallel to \overline{PQ} , and write them in the form $a\mathbf{i} + b\mathbf{j} + c\mathbf{k}$.

