

Last Name: _____

First Name: _____

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Quiz 7 (B)

Question 1. (3 marks) Given the point $Q(2, -2, 5)$ find an initial point P so that the vector \vec{PQ} is in the opposite direction as $\vec{v} = (3, -4, -1)$.

Question 2. (3 marks) Given $\vec{u} = (2, 1, -3)$, $\vec{v} = (0, 1, 3)$, and $\vec{w} = (-2, 2, -1)$ evaluate $\|3\vec{u} - 2\vec{v} + \vec{w}\|$.

Question 3. (4 marks) Find the angle between the vectors $\vec{u} = (1, -1, -2)$, and $\vec{v} = (4, 2, -2)$.