| Dawson College: Linear Algebra: 201-NYC-05 06 | March 25, 2010 |
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Last Name:

First Name:

Student ID:

Quiz 7 (A)

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

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

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