Name: HW 3 - Due: 1/14

Problem 1

Find the vector with initial point P(1,2,3) and terminal point Q(2,4,1), then compute it's length and direction.

Problem 2

Find the direction and magnitude of the vector 3i - 2j + 1k.

Problem 3

For a general vector \vec{v} in \mathbb{R}^3 , show that $\frac{\vec{v}}{|\vec{v}|}$ is always a unit vector.