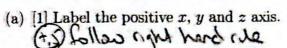
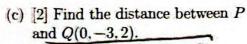
Quiz 1

This is a two-stage quiz. During the first stage, use your knowledge & calculator. You have 15 min. In the second stage, you are now welcome to use your books, notes, and students in the class to retake the same quiz. You have the remainder of the quiz time to write one solution (with everyones name on it!!!) to be turned in for the group.

Consider the set of axis on the right.



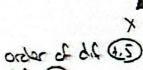
(b) [1] Plot the point P(-3, 2, 1)



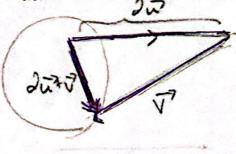
$$= \sqrt{9+35+1} = \sqrt{35}$$

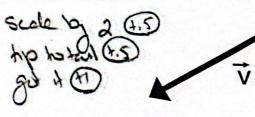
$$= \sqrt{9+35+1} = \sqrt{35}$$

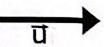
(d) [2] Find the components of \overrightarrow{PQ} .



2. [2] Let \overrightarrow{u} and \overrightarrow{v} be the vectors shown on the right. Sketch $2\overrightarrow{u} + \overrightarrow{v}$







3. [2] If Neland is pulling a wagon with a force of 30 Newtons exerted with a handle that makes an angle of 32 degrees above the horizontal, what is the horizontal component preble (1.5)

