Physics 101Rec Quiz#2 Chapter 3c

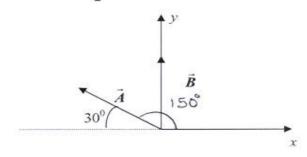
Instructor: Dr. A. Mekki

Name:

Id:

Sect:

Each of the vectors \vec{A} and \vec{B} shown in the figure has a magnitude of 3.0 m. Find the magnitude of the following vectors: $\vec{A} - \vec{B}$, $2\vec{A} + \vec{B}$, and $\vec{A} - \frac{\vec{B}}{2}$.



$$\vec{A} - \vec{B} = -2.6 \hat{i} - 1.5 \hat{j}$$

$$2\vec{A} = -5.2\hat{i} + 3\hat{j}$$

$$\vec{A} - \vec{B} = -2.6\hat{1} + 0\hat{1}$$
 $[\vec{A} - \vec{B}] = 2.6 \text{ m}$

$$\left| \overrightarrow{A} - \frac{\overrightarrow{B}}{2} \right| = 2.6 \text{ m}$$