

QUIZ 1

Name _____

1. For the vectors $\vec{w} = \langle 1, 0, -2 \rangle$ and $\vec{v} = \langle 1, -2, 3 \rangle$ find $5\vec{v} + 3\vec{w}$.
2. Find a magnitude 8 vector in the direction $\vec{v} = \langle 3, 0, -4 \rangle$.
3. The thrust of an airplane's engines produces a speed of 400mph in still air. The wind velocity is given by $\langle -20, 30 \rangle$. In what direction should the airplane fly in order to head due north?