

MA 103
Quiz 6 Retake
October 18, 2007

You will have 15 minutes to complete this quiz. Technology is forbidden on this quiz. Find each if possible, otherwise state why not.

Let $\vec{v} = \langle -3, 5, -1 \rangle$, $\vec{w} = \langle -2, 1, 0 \rangle$,
 $A = \begin{bmatrix} -2 \\ 0 \end{bmatrix}$, $B = \begin{bmatrix} 2 & -1 \\ 3 & -3 \end{bmatrix}$ and $C = \begin{bmatrix} -5 & 1 & 0 \\ 7 & -3 & 2 \end{bmatrix}$.

1. Find $\vec{v} - 3\vec{w}$.
2. Find $\vec{v} \cdot \vec{w}$.
3. Find the angle between \vec{v} and \vec{w} .
4. Find AB .
5. Find BC .
6. Find two 2×2 matrices D and E so that $DE \neq ED$.