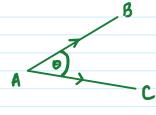
$$\overrightarrow{AB}$$
 and \overrightarrow{AC} are two vectors such that $\overrightarrow{AB} = \begin{pmatrix} 3 \\ -1 \\ 2 \end{pmatrix}$ and $\overrightarrow{AC} = \begin{pmatrix} 2 \\ 0 \\ 1 \end{pmatrix}$

Find $B\hat{A}C$ to the nearest degree.



$$|\overrightarrow{AB}| = |3^{2} + (-1)^{2} + 2^{2}$$

$$= |14|$$

$$C |(\overrightarrow{AC}| = |2^{2} + 0^{2} + |2|)$$

$$= |5|$$

Angle between 2 vectors **a** and **b**

$$\cos\theta = \frac{a \cdot b}{|a||b|}$$

$$\overrightarrow{AB} \cdot \overrightarrow{AC} = \begin{pmatrix} 3 \\ -1 \\ 2 \end{pmatrix} \cdot \begin{pmatrix} 2 \\ 0 \\ 1 \end{pmatrix}$$

$$\cos\theta = \frac{8}{170}$$

$$\begin{array}{c|c} \hline \blacksquare & \textbf{MathDegNorm1} & \textbf{d/cReal} \\ \hline \textbf{cos}^{-1} & \left(\frac{8}{\sqrt{14}\sqrt{5}} \right) \\ \hline & 17.02386618 \\ \hline \end{array}$$

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