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$$\overrightarrow{AB} = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$\overrightarrow{CD} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$\overrightarrow{AB} \cdot \overrightarrow{CD} = 0 \cdot 0 + 1 \cdot (-1)$$

$$\overrightarrow{AB} \cdot \overrightarrow{CD} = 0$$

$$\overrightarrow{AC} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$\overrightarrow{AB} \cdot \overrightarrow{AC} = 0 \cdot 1 + 1 \cdot 1$$

$$\overrightarrow{AB} \cdot \overrightarrow{AC} = 1$$

$$\overrightarrow{BC} = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$\overrightarrow{BD} = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$\overrightarrow{BC} \cdot \overrightarrow{BD} = 1 \cdot 1 + 0 \cdot (-1)$$

$$\overrightarrow{BC} \cdot \overrightarrow{BD} = 1$$

