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## Opgave 451

$$\overrightarrow{AB} = \begin{pmatrix} 1 - (-1) \\ 6 - 2 \end{pmatrix}$$

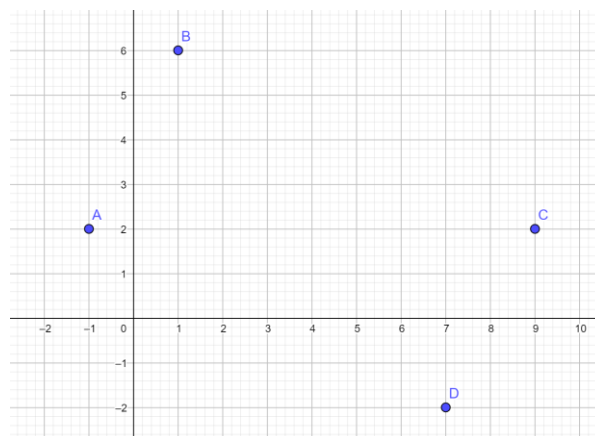
$$\overrightarrow{AB} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$$

$$\overrightarrow{BC} = \begin{pmatrix} 9 - 1 \\ 2 - 6 \end{pmatrix}$$

$$\overrightarrow{BC} = \begin{pmatrix} 8 \\ -4 \end{pmatrix}$$

$$\overrightarrow{CD} = \begin{pmatrix} 7 - 9 \\ -2 - 2 \end{pmatrix}$$

$$\overrightarrow{CD} = \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$



$$\overrightarrow{DA} = \begin{pmatrix} -1 - 7 \\ 2 - (-2) \end{pmatrix}$$

$$\overrightarrow{DA} = \begin{pmatrix} -8 \\ 4 \end{pmatrix}$$

$$\overrightarrow{AB} \cdot \overrightarrow{BC} = 2 \cdot 8 + 4 \cdot (-4)$$

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

$$\overrightarrow{BC} \cdot \overrightarrow{CD} = 8 \cdot (-2) + (-4) \cdot (-4)$$

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

$$\overrightarrow{CD} \cdot \overrightarrow{DA} = (-2) \cdot (-8) + (-4) \cdot (4)$$

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