Opgave 450

$$\vec{AB} = \begin{pmatrix} -8 - (-2) \\ 8 - 2 \end{pmatrix}$$
$$\vec{AB} = \begin{pmatrix} -6 \\ 6 \end{pmatrix}$$

$$\vec{AC} = \begin{pmatrix} -4 - (-2) \\ -4 - 2 \end{pmatrix}$$
$$\vec{AC} = \begin{pmatrix} -2 \\ -6 \end{pmatrix}$$

$$\vec{BC} = \begin{pmatrix} -4 - (-8) \\ -4 - 8 \end{pmatrix}$$
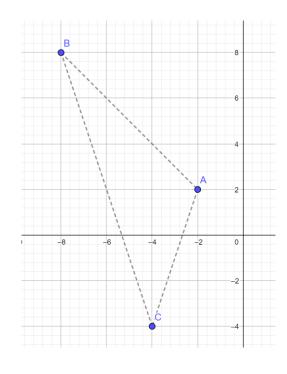$$\vec{BC} = \begin{pmatrix} 4 \\ -12 \end{pmatrix}$$

$$\vec{AB} \bullet \vec{AC} = (-6) \cdot (-2) + 6 \cdot (-6)$$
$$\vec{AB} \bullet \vec{AC} = -24$$

$$\vec{AB} \bullet \vec{BC} = (-6) \cdot 4 + 6 \cdot (-12)$$
$$\vec{AB} \bullet \vec{BC} = -96$$

$$\vec{AC} \bullet \vec{BC} = (-2) \cdot 4 + (-6) \cdot (-12)$$
$$\vec{AC} \bullet \vec{BC} = 64$$