Opgave 447

$$\overrightarrow{AB} = \begin{pmatrix} 2.5 \\ 4.33 \end{pmatrix}$$
$$\overrightarrow{AC} = \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

$$\overrightarrow{AB} \bullet \overrightarrow{AC} = 2.5 \cdot 5 + 4.33 \cdot 0$$
$$\overrightarrow{AB} \bullet \overrightarrow{AC} = 12.5$$

$$\overrightarrow{BC} = \begin{pmatrix} 2.5 \\ -4.33 \end{pmatrix}$$

$$\overrightarrow{AB} \bullet \overrightarrow{BC} = 2.5 \cdot 2.5 + 4.33 \cdot (-4.33)$$
$$\overrightarrow{AB} \bullet \overrightarrow{BC} = -12.5$$

$$\overrightarrow{BA} = \begin{pmatrix} -2.5 \\ -4.33 \end{pmatrix}$$

$$\overrightarrow{AB} \bullet \overrightarrow{BA} = 2.5 \cdot (-2.5) + 4.33 \cdot (-4.33)$$
$$\overrightarrow{AB} \bullet \overrightarrow{BA} = -25$$