

	Navn:		Skole:	
	Klasse: 20		Dato: 14. september 2021	Fag: Matematik A

Opgave 450

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

$$\overrightarrow{AB} = \begin{pmatrix} -6 \\ 6 \end{pmatrix}$$

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

$$\overrightarrow{AC} = \begin{pmatrix} -2 \\ -6 \end{pmatrix}$$

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

$$\overrightarrow{BC} = \begin{pmatrix} 4 \\ -12 \end{pmatrix}$$

$$\overrightarrow{AB} \cdot \overrightarrow{AC} = (-6) \cdot (-2) + 6 \cdot (-6)$$

$$\overrightarrow{AB} \cdot \overrightarrow{AC} = -24$$

$$\overrightarrow{AB} \cdot \overrightarrow{BC} = (-6) \cdot 4 + 6 \cdot (-12)$$

$$\overrightarrow{AB} \cdot \overrightarrow{BC} = -96$$

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

$$\overrightarrow{AC} \cdot \overrightarrow{BC} = 64$$

