

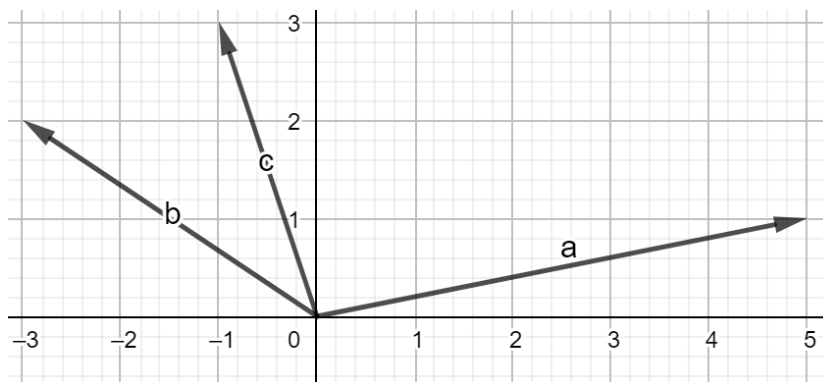
	Navn:		Skole:	
	Klasse: 20		Dato: 28. august 2021	Fag: Matematik A

Opgave 432

$$\vec{a} = \begin{pmatrix} 5 \\ 1 \end{pmatrix}$$

$$\vec{b} = \begin{pmatrix} -3 \\ 2 \end{pmatrix}$$

$$\vec{c} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$$



$$\overrightarrow{V_{sum}} = \vec{a} + \vec{b} + \vec{c}$$

$$\overrightarrow{V_{sum}} = \begin{pmatrix} 5 \\ 1 \end{pmatrix} + \begin{pmatrix} -3 \\ 2 \end{pmatrix} + \begin{pmatrix} -1 \\ 3 \end{pmatrix}$$

$$\overrightarrow{V_{sum}} = \begin{pmatrix} 5 + (-3) + (-1) \\ 1 + 2 + 3 \end{pmatrix}$$

$$\overrightarrow{V_{sum}} = \begin{pmatrix} 1 \\ 6 \end{pmatrix}$$

$$|\overrightarrow{V_{sum}}| = \sqrt{\overrightarrow{V_{sum}_x}^2 + \overrightarrow{V_{sum}_y}^2}$$

$$|\overrightarrow{V_{sum}}| = \sqrt{1^2 + 6^2}$$

$$|\overrightarrow{V_{sum}}| = \sqrt{1 + 36}$$

$$|\overrightarrow{V_{sum}}| = \sqrt{37}$$

$$|\overrightarrow{V_{sum}}| = 6.08$$