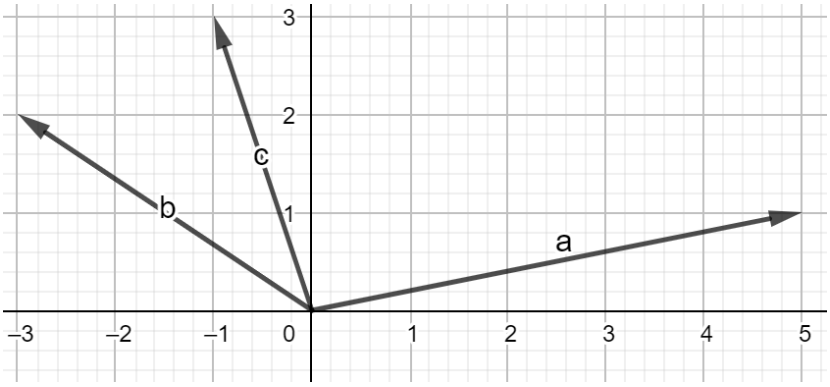
	Navn:		Skole:	
	Klasse: 20		Dato: 28. august 2021	Fag: Matematik A

Opgave 432

$\vec{a} = \begin{pmatrix} 5 \\ 1 \end{pmatrix}$
$\vec{b} = \begin{pmatrix} -3 \\ 2 \end{pmatrix}$
$\vec{c} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$



$\overrightarrow{V_{sum}} = \vec{a} + \vec{b} + \vec{c}$
$\overrightarrow{V_{sum}} = \begin{pmatrix} 5 \\ 1 \end{pmatrix} + \begin{pmatrix} -3 \\ 2 \end{pmatrix} + \begin{pmatrix} -1 \\ 3 \end{pmatrix}$
$\overrightarrow{V_{sum}} = \begin{pmatrix} 5 + (-3) + (-1) \\ 1 + 2 + 3 \end{pmatrix}$
$\overrightarrow{V_{sum}} = \begin{pmatrix} 1 \\ 6 \end{pmatrix}$

$|\overrightarrow{V_{sum}}| = \sqrt{\overrightarrow{V_{sum_x}}^2 + \overrightarrow{V_{sum_y}}^2}$
$|\overrightarrow{V_{sum}}| = \sqrt{1^2 + 6^2}$
$|\overrightarrow{V_{sum}}| = \sqrt{1 + 36}$
$|\overrightarrow{V_{sum}}| = \sqrt{37}$
$|\overrightarrow{V_{sum}}| = 6.08$