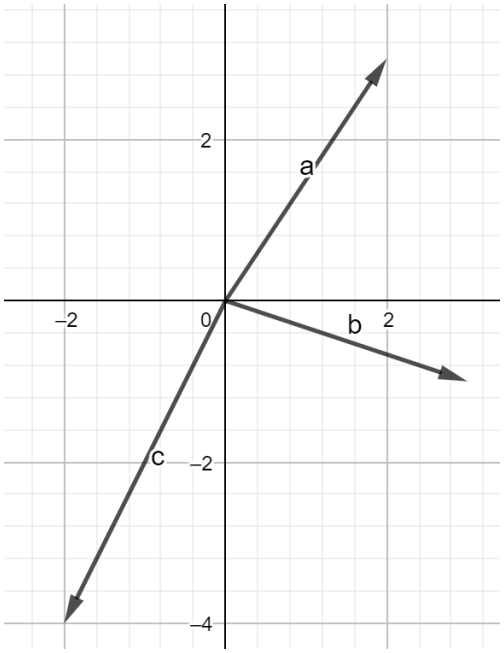
	Navn:		Skole:	
	Klasse: 20		Dato: 10. september 2021	Fag: Matematik A

Opgave 441



$$\vec{a} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$$
$$\vec{b} = \begin{pmatrix} 3 \\ -1 \end{pmatrix}$$
$$\vec{c} = \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$

$$\vec{v} = \vec{a} + \vec{b} - \vec{c}$$
$$\vec{v} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} + \begin{pmatrix} 3 \\ -1 \end{pmatrix} - \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$
$$\vec{v} = \begin{pmatrix} 2+3+2 \\ 3-1+4 \end{pmatrix}$$
$$\vec{v} = \begin{pmatrix} 7 \\ 6 \end{pmatrix}$$

$$\vec{u} = \vec{a} - \vec{b} - \vec{c}$$
$$\vec{u} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} - \begin{pmatrix} 3 \\ -1 \end{pmatrix} - \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$
$$\vec{u} = \begin{pmatrix} 2-3+2 \\ 3+1+4 \end{pmatrix}$$
$$\vec{u} = \begin{pmatrix} 1 \\ 8 \end{pmatrix}$$

$$\vec{r} = -\vec{a} - \vec{b} - \vec{c}$$
$$\vec{r} = -\begin{pmatrix} 2 \\ 3 \end{pmatrix} - \begin{pmatrix} 3 \\ -1 \end{pmatrix} - \begin{pmatrix} -2 \\ -4 \end{pmatrix}$$
$$\vec{r} = \begin{pmatrix} -2-3+2 \\ -3+1+4 \end{pmatrix}$$
$$\vec{r} = \begin{pmatrix} -3 \\ 2 \end{pmatrix}$$

$$|\vec{x}| = \sqrt{\overrightarrow{x_x} + \overrightarrow{x_y}}$$

$$|\vec{v}| = \sqrt{7^2 + 6^2}$$
$$|\vec{v}| = \sqrt{85}$$
$$|\vec{v}| = 9.22$$

$$|\vec{u}| = \sqrt{1^2 + 8^2}$$
$$|\vec{u}| = \sqrt{65}$$
$$|\vec{u}| = 8.06$$

$$|\vec{r}| = \sqrt{(-3)^2 + 2^2}$$
$$|\vec{r}| = \sqrt{13}$$
$$|\vec{r}| = 3.61$$