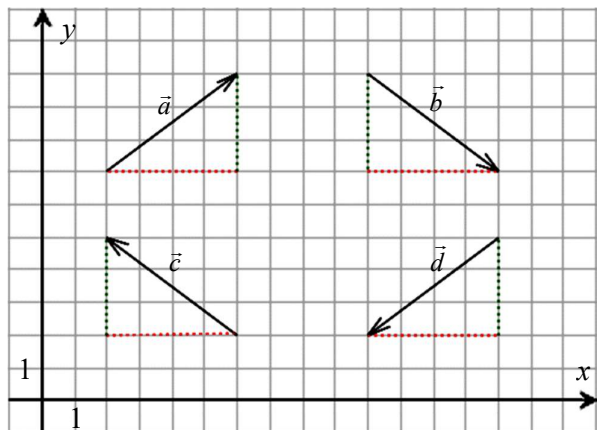


# Vektorer

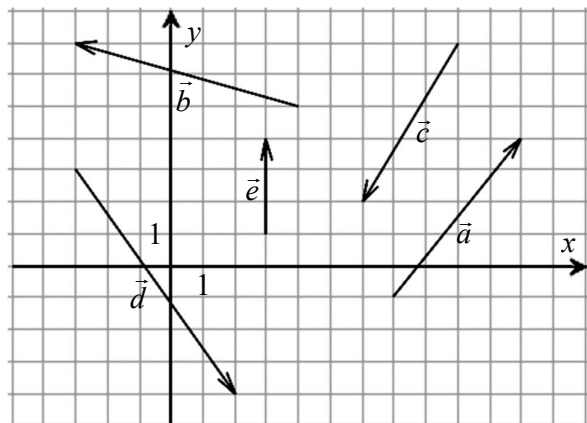
**Udfyld** som vist i eksempel:

## 1. Eksempler:



$$\vec{a} = \begin{pmatrix} 4 \\ 3 \end{pmatrix} \quad \vec{b} = \begin{pmatrix} 4 \\ -3 \end{pmatrix} \quad \vec{c} = \begin{pmatrix} -4 \\ 3 \end{pmatrix} \quad \vec{d} = \begin{pmatrix} -4 \\ -3 \end{pmatrix}$$

**Udfyld:**



$$\vec{a} = \begin{pmatrix} \quad \\ \quad \end{pmatrix} \quad \vec{b} = \begin{pmatrix} \quad \\ \quad \end{pmatrix} \quad \vec{c} = \begin{pmatrix} \quad \\ \quad \end{pmatrix} \quad \vec{d} = \begin{pmatrix} \quad \\ \quad \end{pmatrix} \quad \vec{e} = \begin{pmatrix} \quad \\ \quad \end{pmatrix}$$

## 2. Eksempel:

Når  $\vec{a} = \begin{pmatrix} 8 \\ -5 \end{pmatrix}$  er  $3 \cdot \vec{a} = \begin{pmatrix} 3 \cdot 8 \\ 3 \cdot (-5) \end{pmatrix} = \begin{pmatrix} 24 \\ -15 \end{pmatrix}$

**Udfyld:**

Når  $\vec{b} = \begin{pmatrix} -15 \\ 5 \end{pmatrix}$  er  $-4 \cdot \vec{b} =$

Når  $\vec{c} = \begin{pmatrix} 1 \\ x+3 \end{pmatrix}$  er  $6 \cdot \vec{c} =$

## 3. Eksempler:

Når  $\vec{u} = \begin{pmatrix} 2 \\ -4 \end{pmatrix}$  og  $\vec{v} = \begin{pmatrix} 6 \\ 3 \end{pmatrix}$  er

$$\vec{u} + \vec{v} = \begin{pmatrix} 2+6 \\ (-4)+3 \end{pmatrix} = \begin{pmatrix} 8 \\ -1 \end{pmatrix} \text{ og}$$

$$\vec{u} - \vec{v} = \begin{pmatrix} 2-6 \\ (-4)-3 \end{pmatrix} = \begin{pmatrix} -4 \\ -7 \end{pmatrix}$$

**Udfyld:**

Når  $\vec{u} = \begin{pmatrix} 11 \\ 25 \end{pmatrix}$  og  $\vec{v} = \begin{pmatrix} -7 \\ 6 \end{pmatrix}$  er

$$\vec{u} + \vec{v} =$$

$$\vec{u} - \vec{v} =$$

## 4. Eksempler:

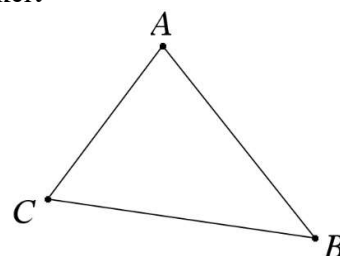
**R** = rigtig **F** = forkert

$$\overline{AB} + \overline{BC} = \overline{AC} \quad \mathbf{R}$$

$$\overline{AB} + \overline{CB} = \overline{AC} \quad \mathbf{F}$$

$$\overline{CA} - \overline{CB} = \overline{BA} \quad \mathbf{R}$$

$$\overline{CA} - \overline{CB} = \overline{AB} \quad \mathbf{F}$$



**Udfyld:**

$$\overline{PR} + \overline{QR} = \overline{PQ} \quad \underline{\quad}$$

$$\overline{PR} + \overline{RQ} = \overline{PQ} \quad \underline{\quad}$$

$$\overline{PR} + \overline{RQ} = \overline{QP} \quad \underline{\quad}$$

$$\overline{RP} - \overline{RQ} = \overline{QP} \quad \underline{\quad}$$

$$\overline{RP} - \overline{RQ} = \overline{PQ} \quad \underline{\quad}$$

