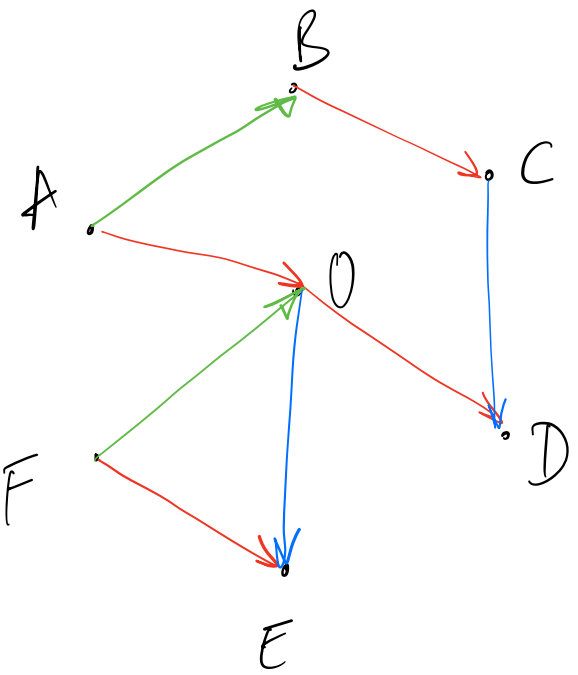
1.1.6 e)

$\vec{v}$ direction sens longueur



$\vec{FE} + \vec{FE}$

$= 2\vec{FE}$

$= \vec{AO} + \vec{OD}$

$= \vec{AD}$

$\vec{XZ} = \vec{XY} + \vec{YZ}$ Chasles

$\vec{XY} = -\vec{YX}$

$\vec{AC} - \vec{BD} - \vec{AB} =$

$\vec{AC} - \vec{AB} - \vec{BD} = \vec{AC} + \vec{BA} - \vec{BD}$

$= \vec{BA} + \vec{AC} - \vec{BD}$

$= \vec{BC} - \vec{BD} = -\vec{CB} - \vec{BD}$

$= \vec{BC} + \vec{DB} = -(\vec{CB} + \vec{BD})$

$= \vec{DB} + \vec{BC} = \vec{DC} = -\vec{CD} = \vec{DC}$

Suggestion pour vendredi

1.1.4 e

1.1.5 f

1.1.6 f

1.1.7

1.1.8 a) b)

1.1.9

Vecteurs

$\vec{a}$ direction / sens / longueur

$\overrightarrow{AB}$

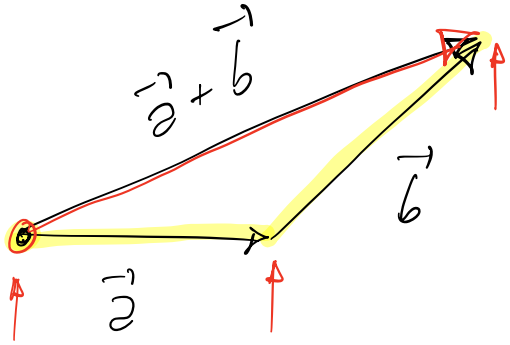
$\overrightarrow{AB} = -\overrightarrow{BA}$

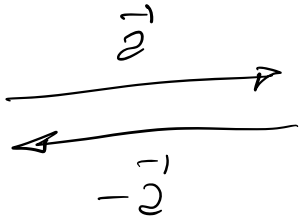
Calcul vectoriel

$\vec{a} + \vec{b}$ $\quad k \cdot \vec{a}$ $\quad k \in \mathbb{R}$

$\vec{a} + \vec{b} = \vec{b} + \vec{a}$

$k(\vec{a} + \vec{b}) = k \cdot \vec{a} + k \cdot \vec{b}$





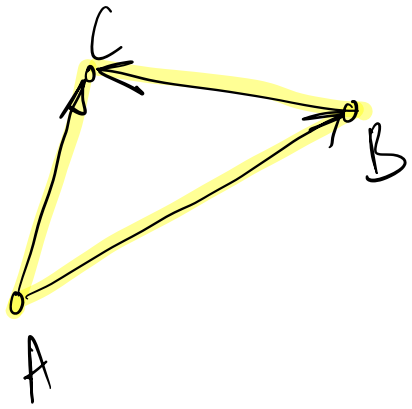
$\vec{a} - \vec{b} = \vec{a} + (-\vec{b})$

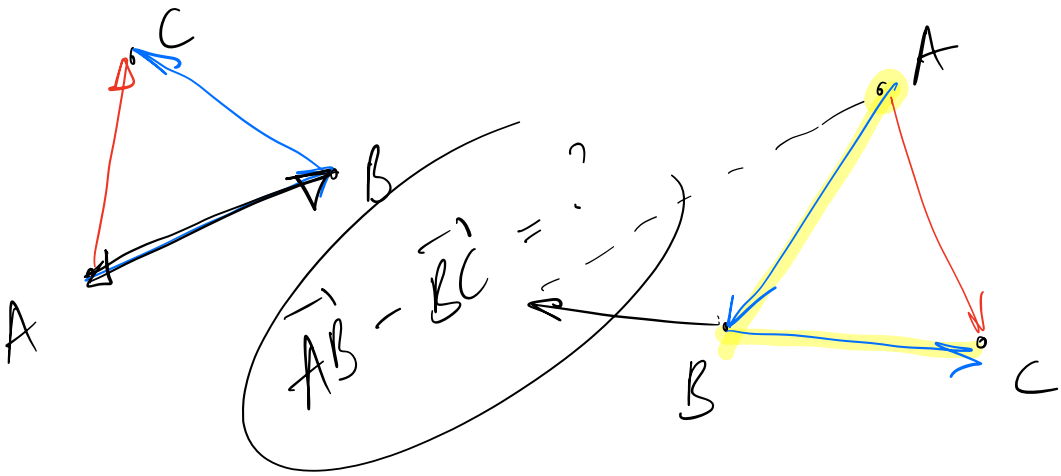
$x, y \in \mathbb{R}$ $\quad x \cdot \vec{a} + y\vec{b}$ est une combinaison linéaire (de $\vec{a}$ et $\vec{b}$)

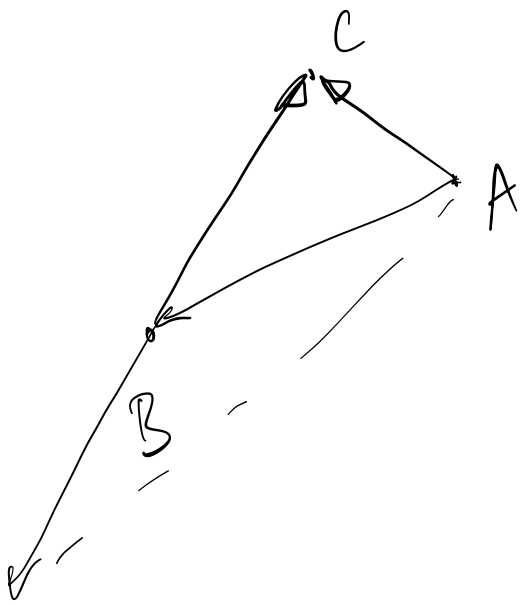
Relation de Chasles

$$\overrightarrow{AB} + \overrightarrow{BC} = \overrightarrow{AC}$$

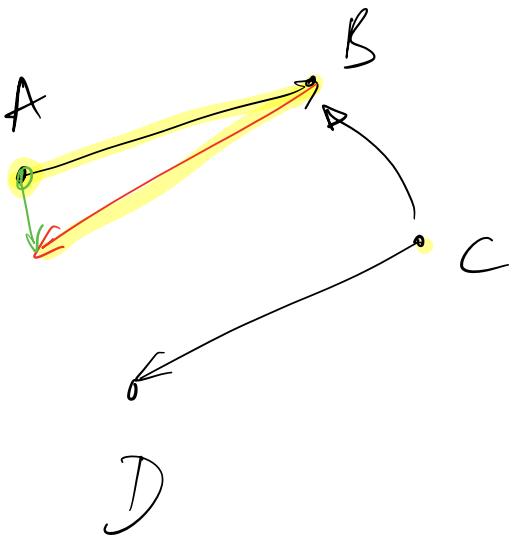
$$\overrightarrow{AB} - \overrightarrow{CB} = \overrightarrow{AC}$$

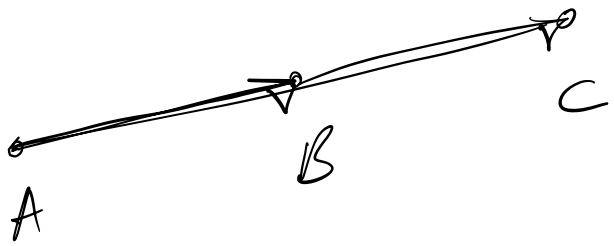






$\vec{AB} + \vec{CD}$





$$\overrightarrow{AC} = 2\overrightarrow{AB}$$

$$\overrightarrow{AB} + \overrightarrow{BC} = \overrightarrow{AC}$$

$$-\overrightarrow{BA} + \overrightarrow{BC} = \overrightarrow{AC}$$

$$\overrightarrow{AB} - \overrightarrow{CB} = \overrightarrow{AC}$$

$$\overrightarrow{AB} + \overrightarrow{BC} = -\overrightarrow{CA}$$

$$-\overrightarrow{BA} - \overrightarrow{CB} = \overrightarrow{AC}$$

$$-\overrightarrow{BA} - \overrightarrow{CB} = -\overrightarrow{CA}$$

$$\overrightarrow{AB} - \overrightarrow{CB} = -\overrightarrow{AC}$$

$$-\overrightarrow{BA} + \overrightarrow{BC} = -\overrightarrow{AC}$$

$$\vec{AC} - \vec{BD} - \vec{AB} =$$

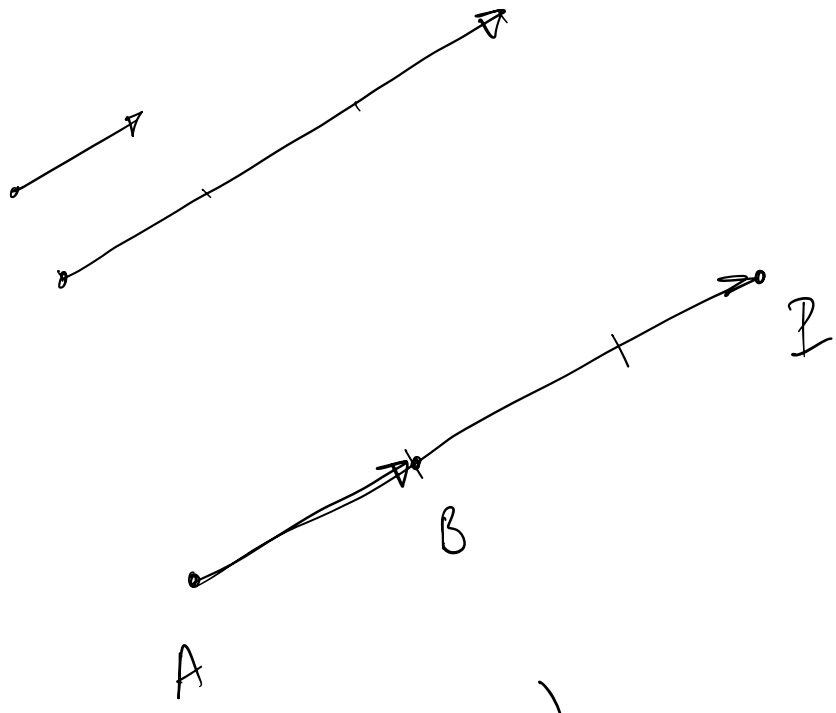
$$\vec{AC} + \vec{DB} + \vec{BA} =$$

$$\vec{AC} + \vec{DA} = \vec{DA} + \vec{AC}$$

$$= \vec{DC}$$

$$-\vec{XY} = \vec{YX}$$

$$\vec{XZ} = \vec{XY} + \vec{YZ}$$



$3(x-y) = 8(a+b+c)$

$3\vec{v} + 4\vec{v} = 7\vec{v}$

$\vec{v} =$

D. $\vec{DD} = \vec{0}$