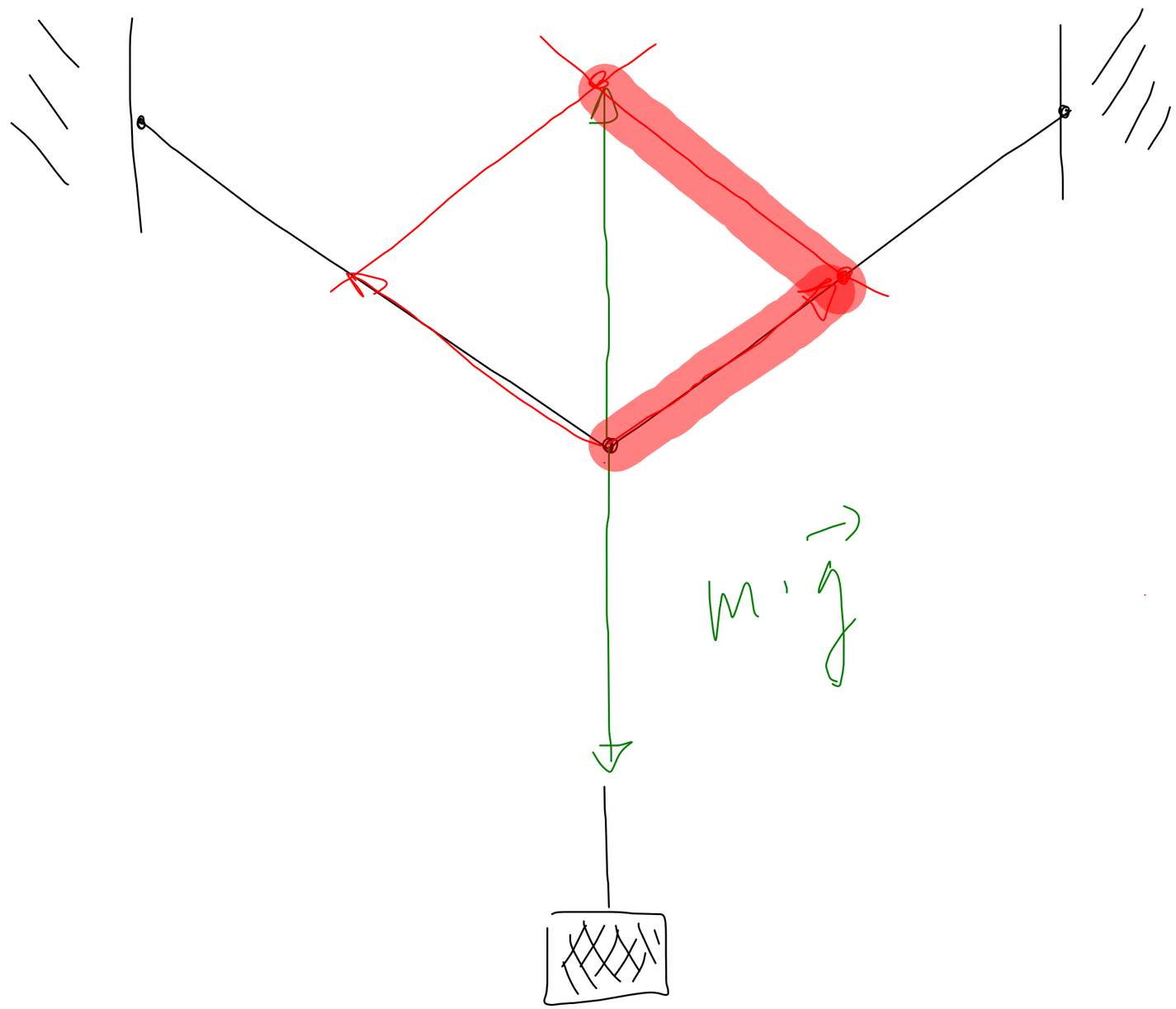
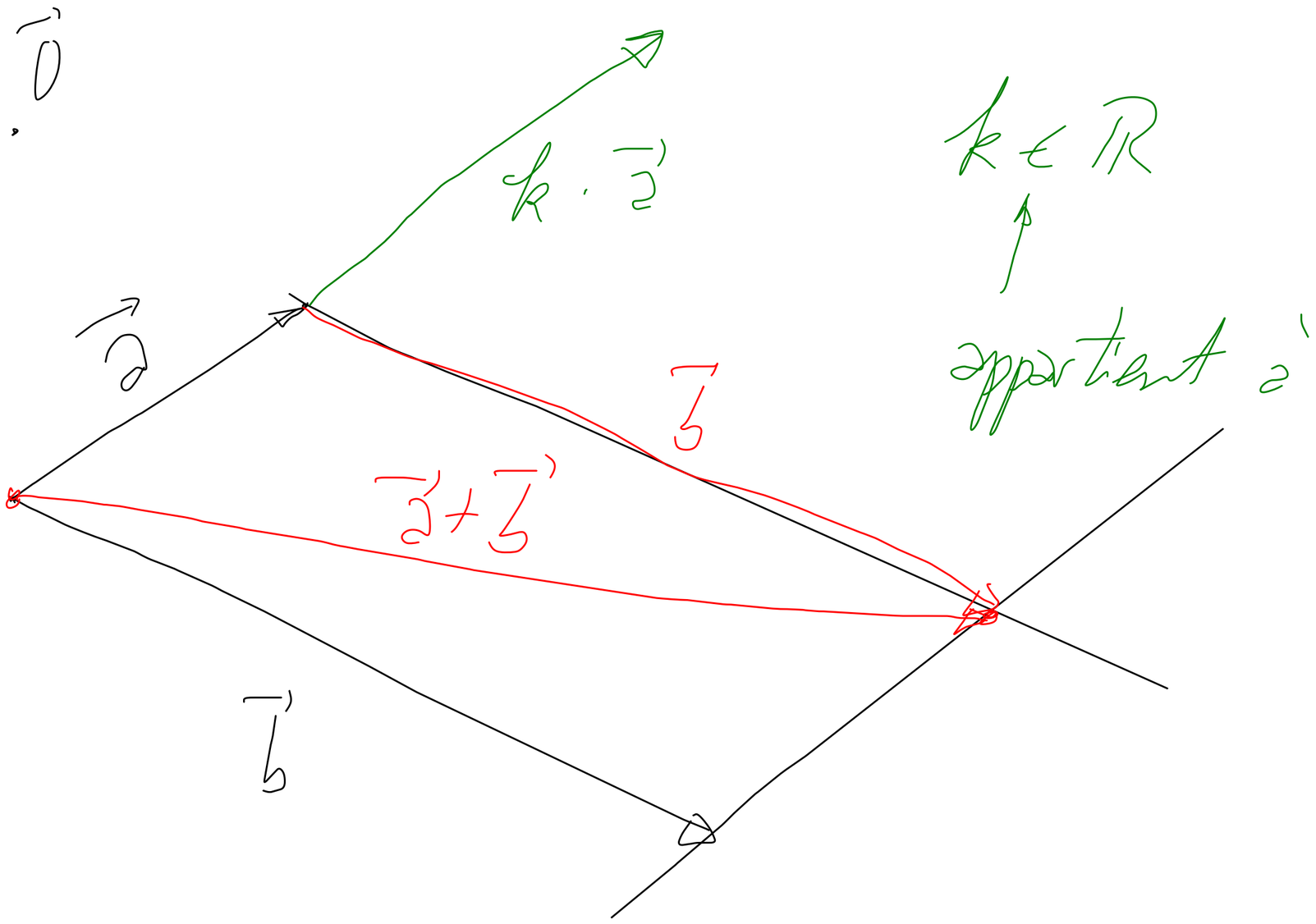
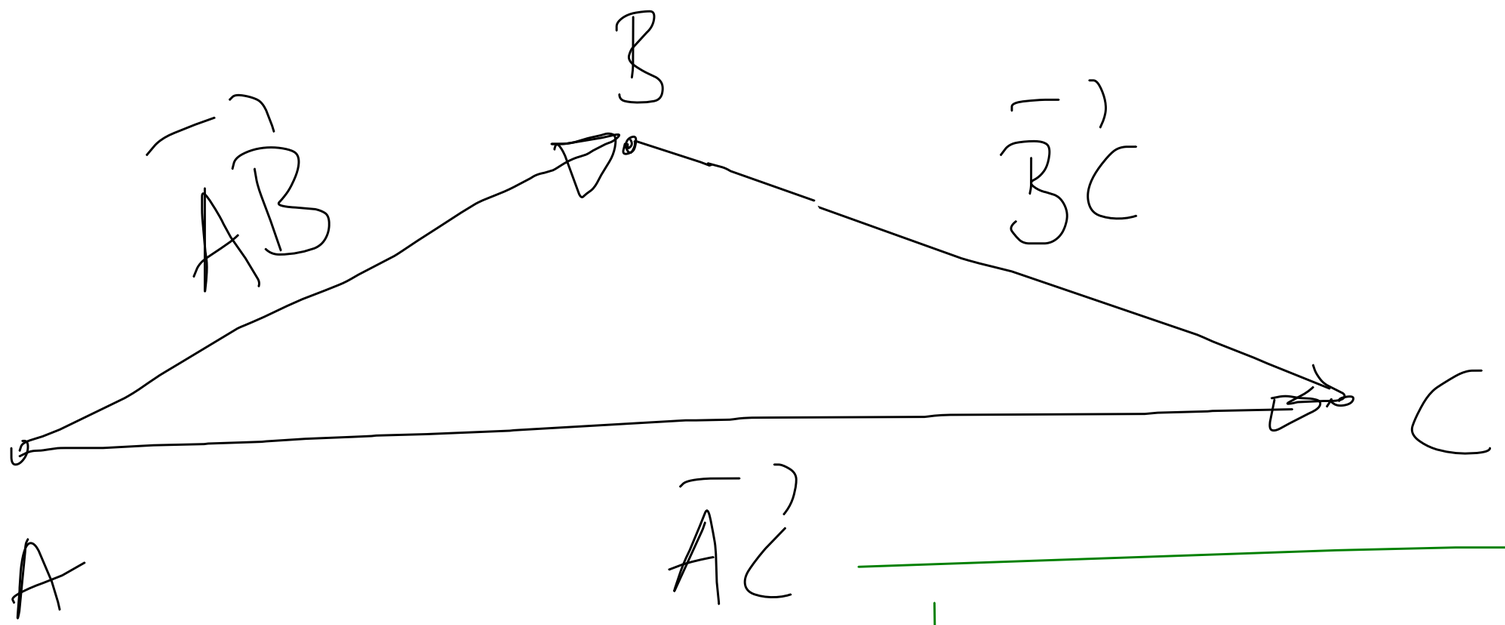
Calcul vectoriel




$\vec{0}$
$k \cdot \vec{z}$
$k \in \mathbb{R}$
appartient à
$\vec{a}$
$\vec{z}$
$\vec{z} + \vec{z}'$
$\vec{z}'$
$\vec{b}$

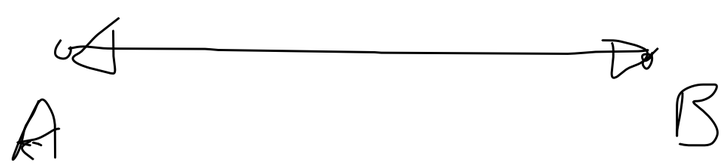
RELATION DE CHASLES



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

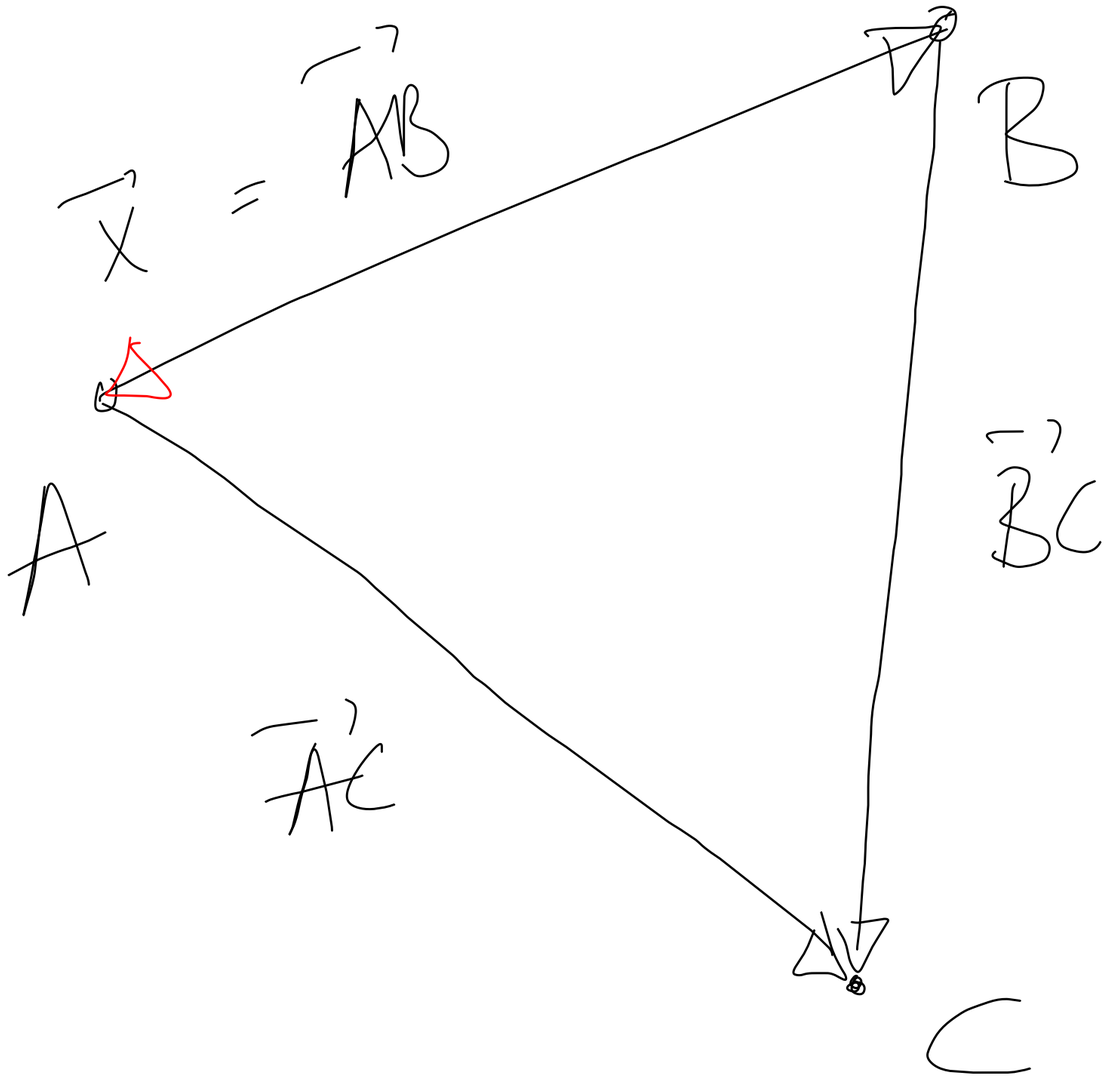
$$\overrightarrow{AA} = \vec{0}$$

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



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

$$\vec{AA} = \vec{0}$$



$$\vec{AB} + \vec{BA} = \vec{0}$$

$$\Rightarrow \vec{AB} = -\vec{BA}$$

$$\overrightarrow{AC} - \overrightarrow{BD} - \overrightarrow{AB} = \overrightarrow{AC} + \overrightarrow{DB} + \overrightarrow{BA}$$

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

$$= \overrightarrow{BC} + \overrightarrow{DB} = \overrightarrow{DB} + \overrightarrow{BC} = \overrightarrow{DC}$$

$\vec{a}, \vec{b}$

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

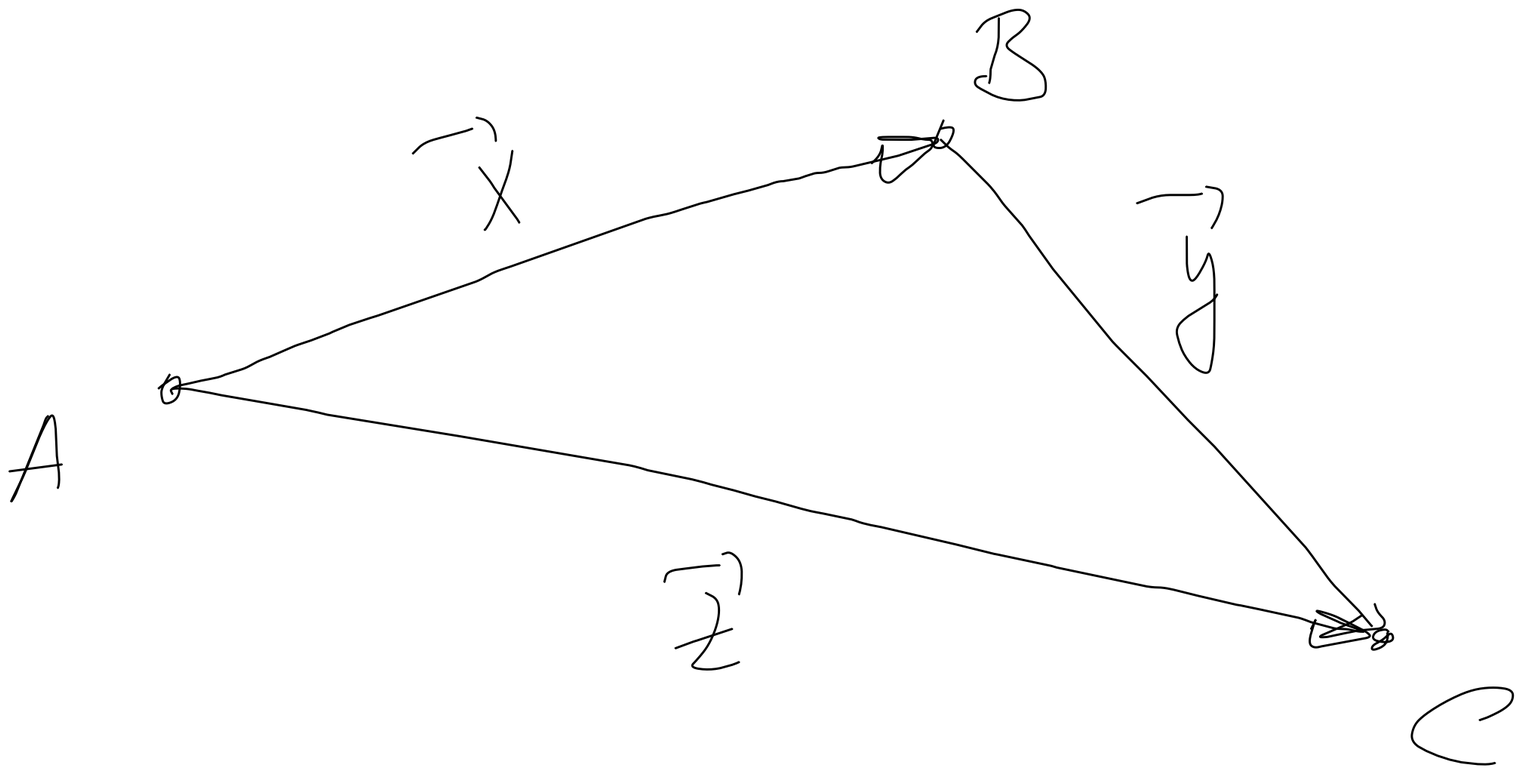
$-\vec{b}$

$\vec{a}$

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

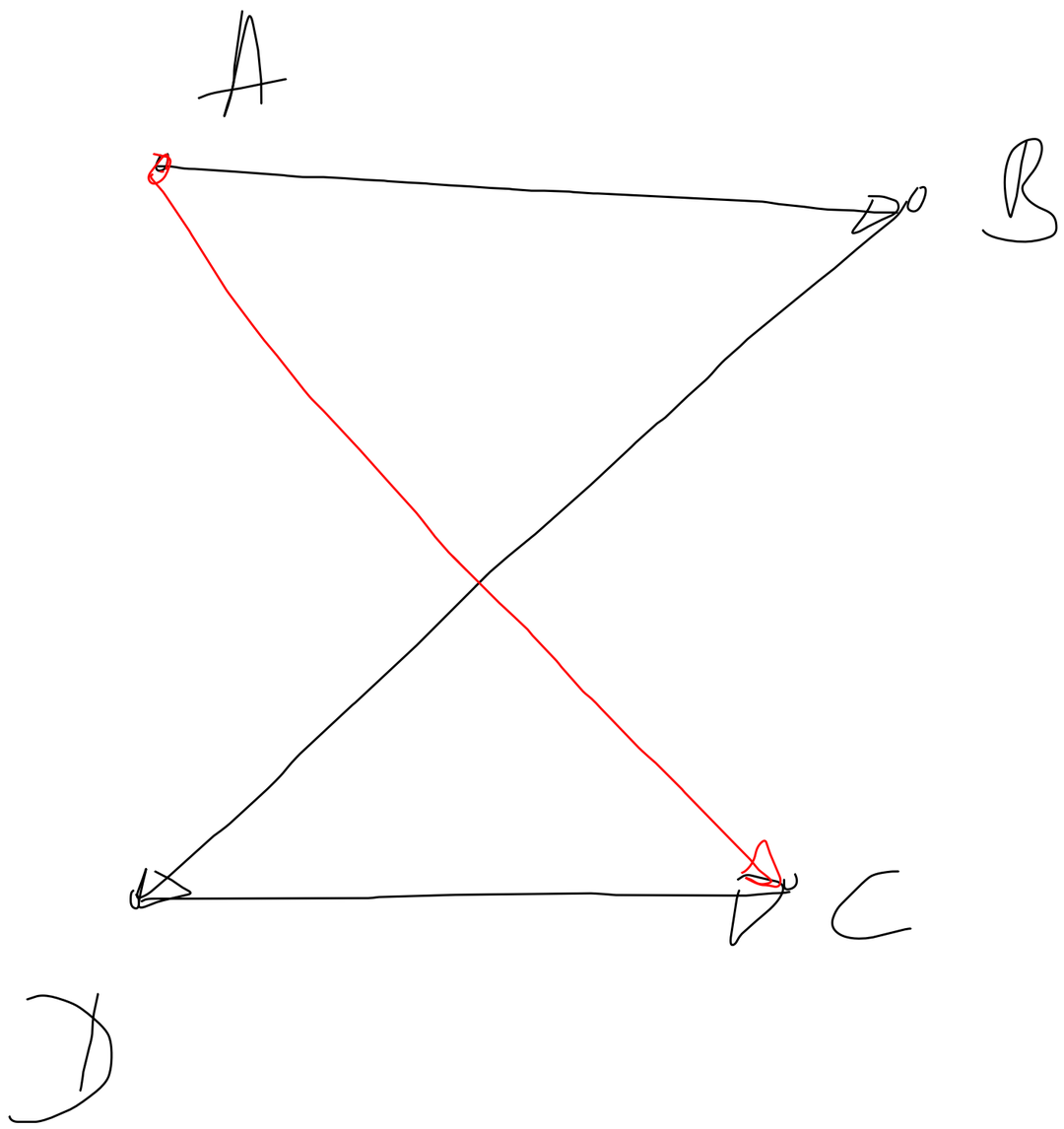
$-\vec{b}$

$\vec{b}$



$$\vec{z} = \vec{x} + \vec{y}$$

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



$$\overrightarrow{BD} + \overrightarrow{AB} + \overrightarrow{DC} =$$

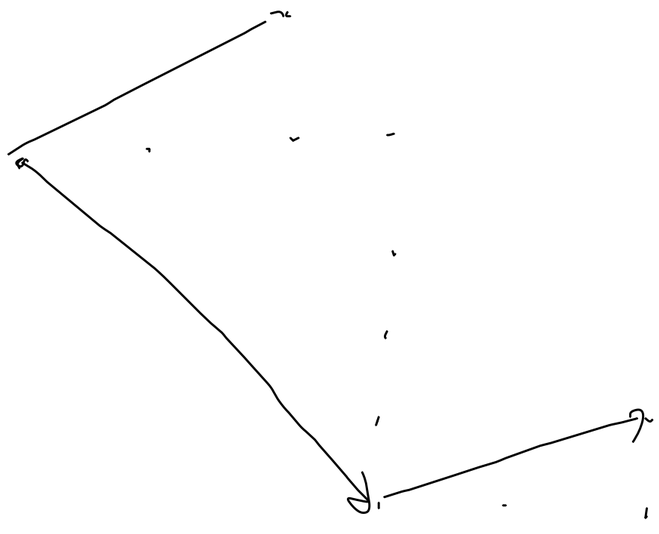
$$\overrightarrow{AB} + \overrightarrow{BD} + \overrightarrow{DC} = \overrightarrow{AC}$$

$$\vec{a} = \begin{pmatrix} 3 \\ -4 \end{pmatrix}$$

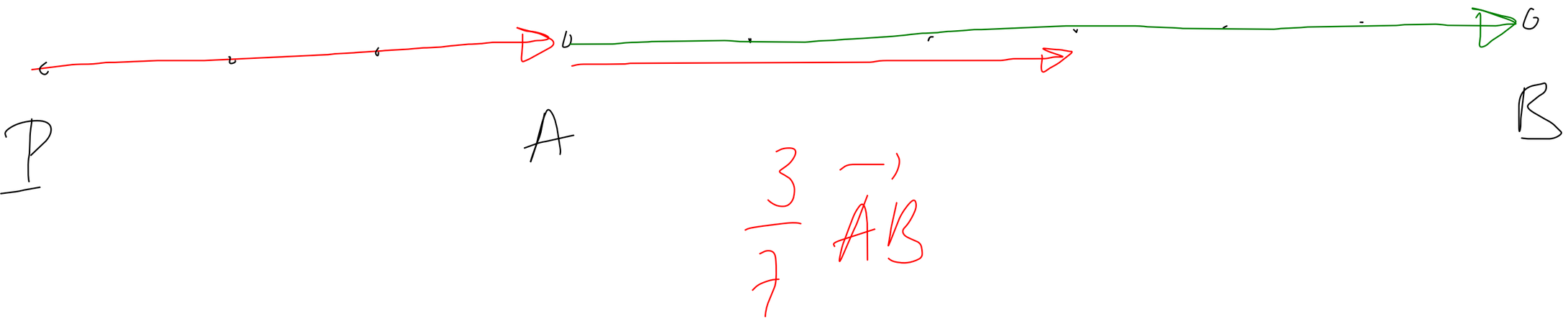
$$\vec{b} = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

$$\vec{a} + \vec{b} = \begin{pmatrix} 5 \\ -3 \end{pmatrix}$$

$$\vec{c} = \begin{pmatrix} 1 \\ 0{,}5 \end{pmatrix}$$



$$4\vec{a} = \begin{pmatrix} 4 \cdot 3 \\ 4 \cdot (-4) \end{pmatrix}$$


P
A
B
3
7
AB