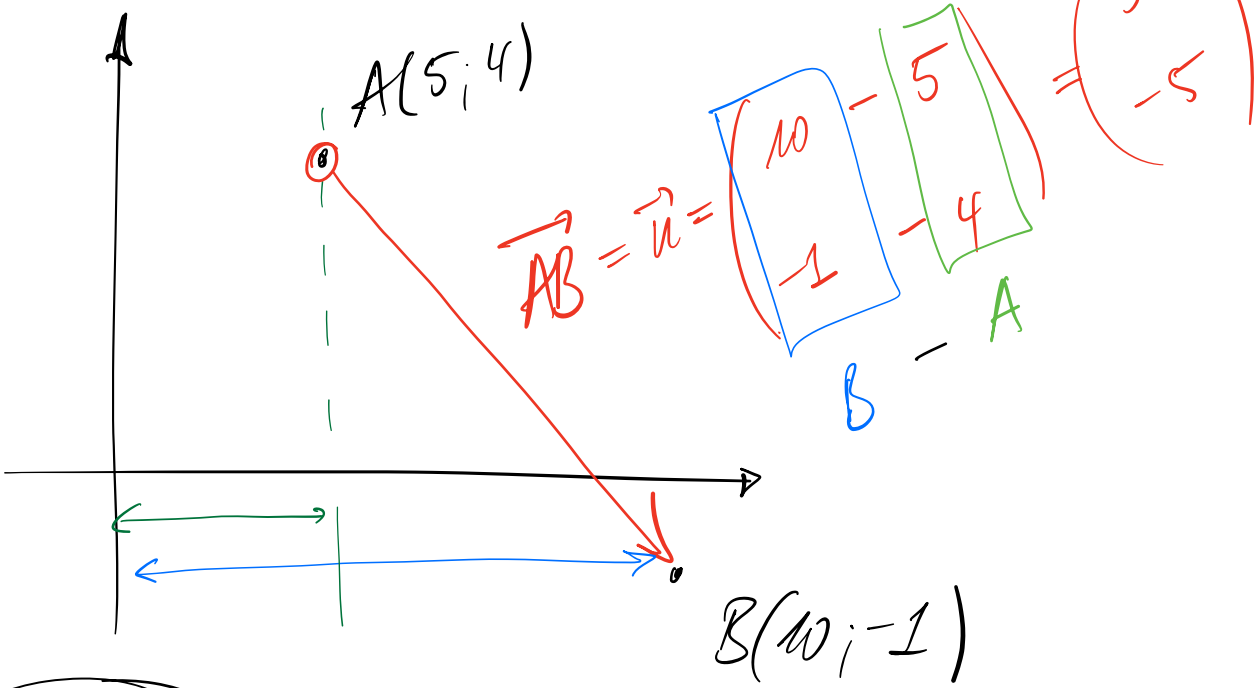
1.3.1 à 1.3.5 ✓

1.3.7 à 1.3.15

VECTEURS



1.3.7

$A = (1;2;3)$

$B = (3;2;1)$

$$\vec{AB} = \begin{pmatrix} 3 \\ 2 \\ 1 \end{pmatrix} - \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = \begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix}$$

B − A

$\vec{AB}$ est dans l'espace à 3 dimensions.

$$\begin{pmatrix}1\\2\\3\end{pmatrix}+\begin{pmatrix}-4\\5\\6\end{pmatrix}=\begin{pmatrix}1-4\\2+5\\3+6\end{pmatrix}=\begin{pmatrix}-3\\7\\9\end{pmatrix}$$

$K=(1;-2;1)$

$L=(-2;1;-3)$

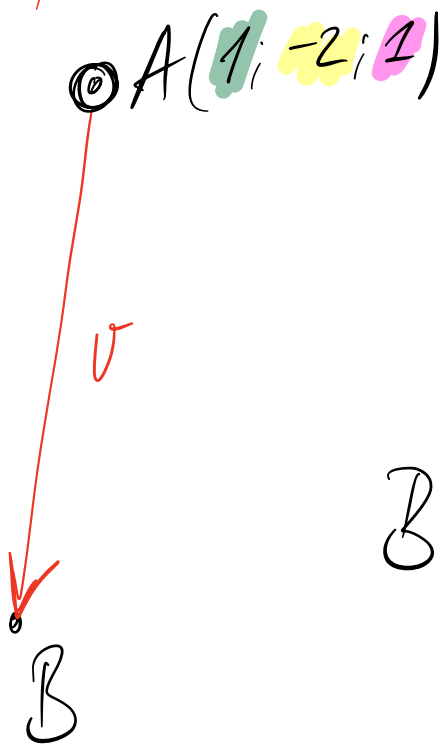
$$\vec{KL}=\begin{pmatrix}-2-1\\1-(-2)\\-3-1\end{pmatrix}$$

+2

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

$$4\vec{KL}=4\cdot\begin{pmatrix}-3\\3\\-4\end{pmatrix}=\begin{pmatrix}4\cdot(-3)\\4\cdot 3\\4\cdot(-4)\end{pmatrix}=\begin{pmatrix}-12\\12\\-16\end{pmatrix}$$

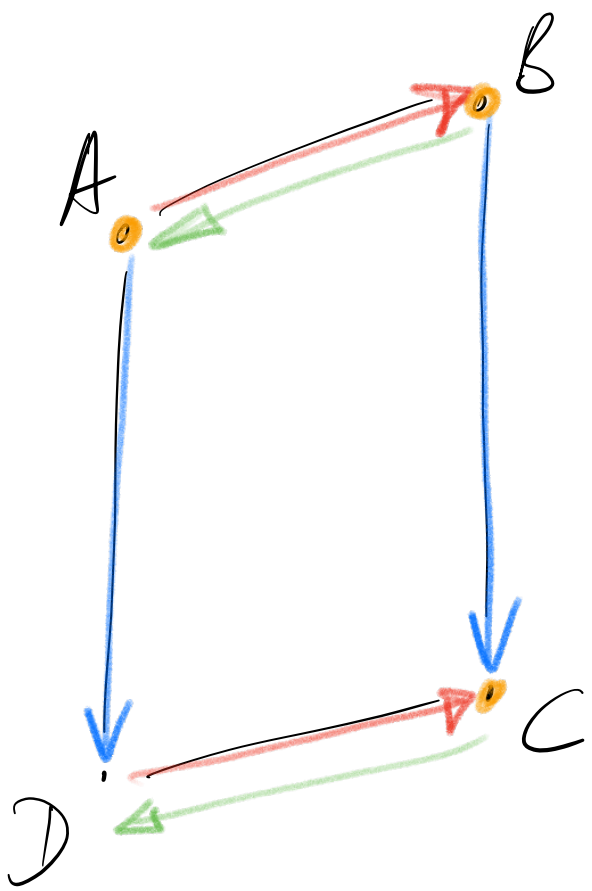
1.3.8 / 1.3.10 Individuāls



$$v = \begin{pmatrix} 3 \\ -3 \\ 4 \end{pmatrix}$$

$$B = A + v = (1+3; -2-3; 1+4)$$

$$= (4; -5; 5)$$



$$A + \vec{BC} = D$$

$$C + \vec{BA} = D$$

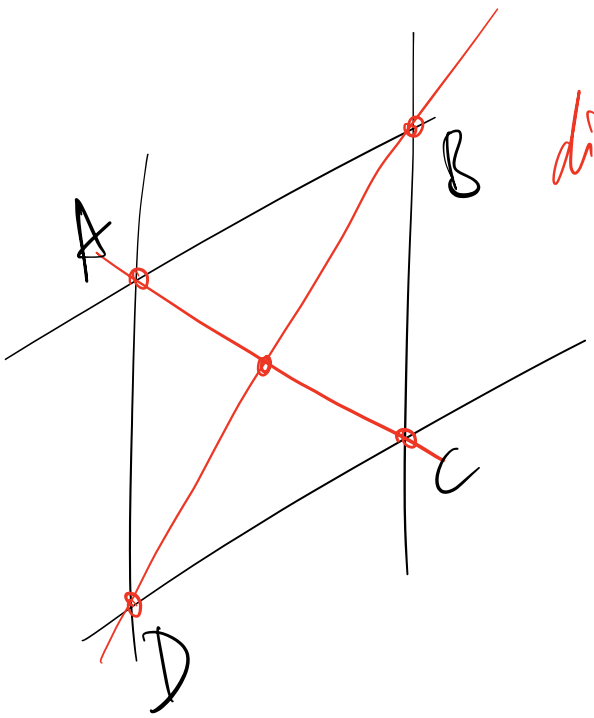
1.3.1 à 1.3.5

1.3.7

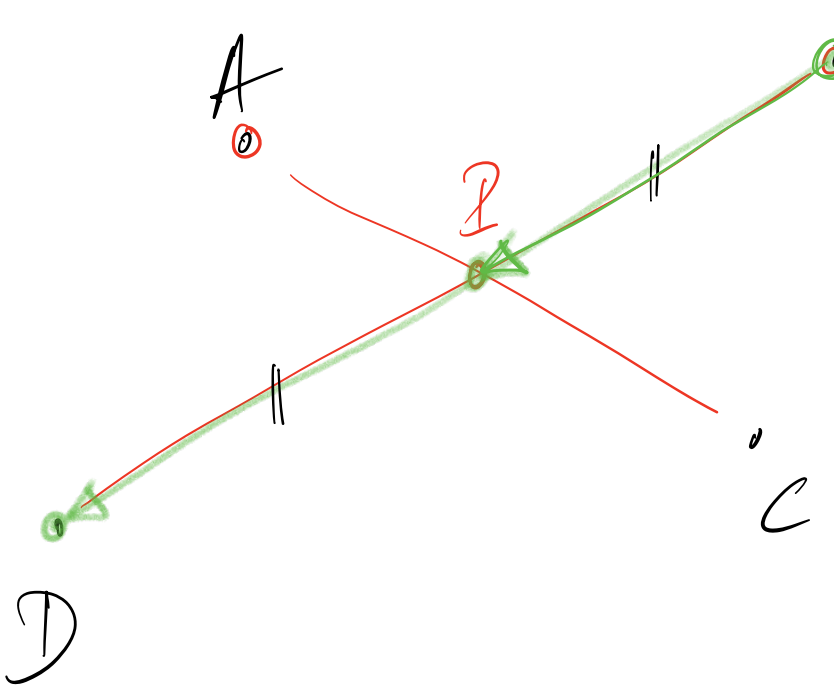
1.3.8

1.3.10

A faire asap



diagonales de ABCD



$$B + 2 \cdot \overrightarrow{BI} = D$$