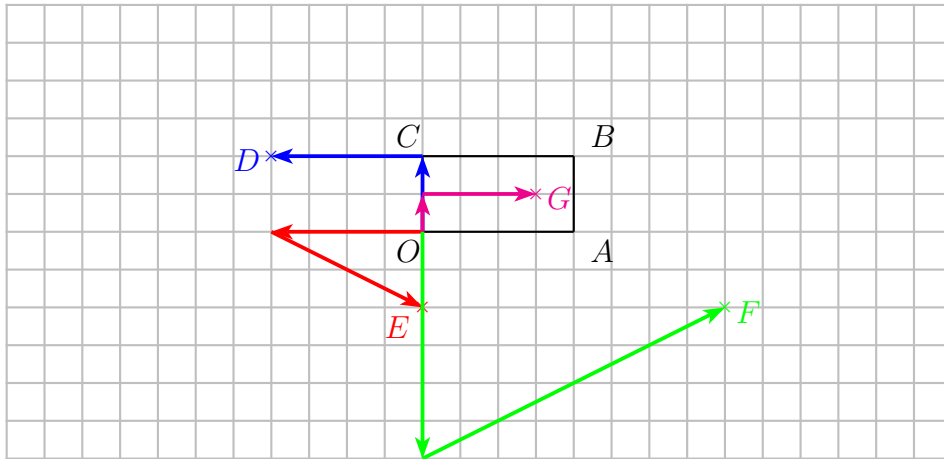
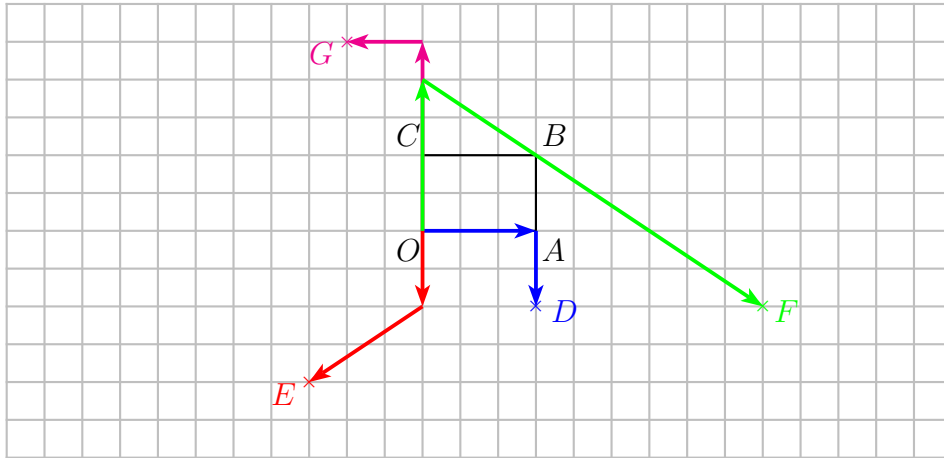


Vecteurs I

Exercice 1.

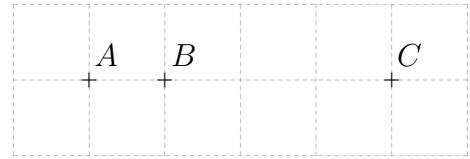
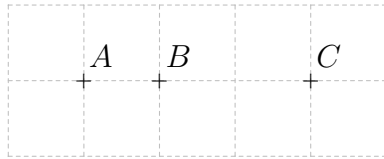


Exercice 2.

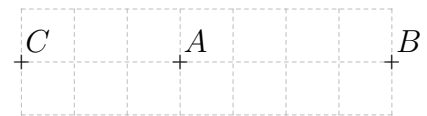
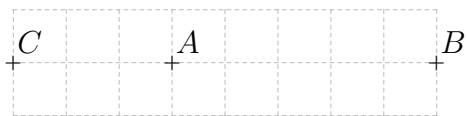
a) $\overrightarrow{BC} - \underbrace{\overrightarrow{ED}}_{+\overrightarrow{DE}} + \overrightarrow{DC} + \overrightarrow{AD} + \overrightarrow{EB} = \boxed{\overrightarrow{AC} + \overrightarrow{DC}}$	$\overrightarrow{BC} + \overrightarrow{DE} + \overrightarrow{AB} + \overrightarrow{AD} - \underbrace{\overrightarrow{BE}}_{+\overrightarrow{EB}} = \boxed{\overrightarrow{AB} + \overrightarrow{AC}}$
b) $3\overrightarrow{AB} + 2\overrightarrow{BC} - \overrightarrow{DB} = 2\overrightarrow{AB} + 2\overrightarrow{BC} + \overrightarrow{AB} + \overrightarrow{BD}$ $= \boxed{2\overrightarrow{AC} + \overrightarrow{AD}}$	$4\overrightarrow{AC} + 3\overrightarrow{CB} - \overrightarrow{DC} = 3\overrightarrow{AC} + 3\overrightarrow{CB} + \overrightarrow{AC} + \overrightarrow{CD}$ $= \boxed{3\overrightarrow{AB} + \overrightarrow{AD}}$

Exercice 3.

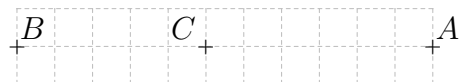
a)



b)



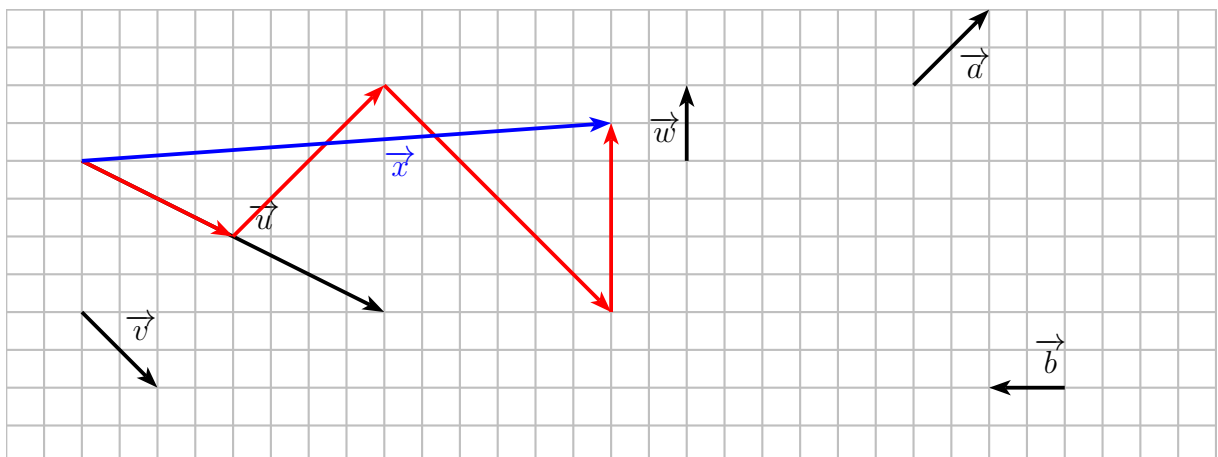
c)

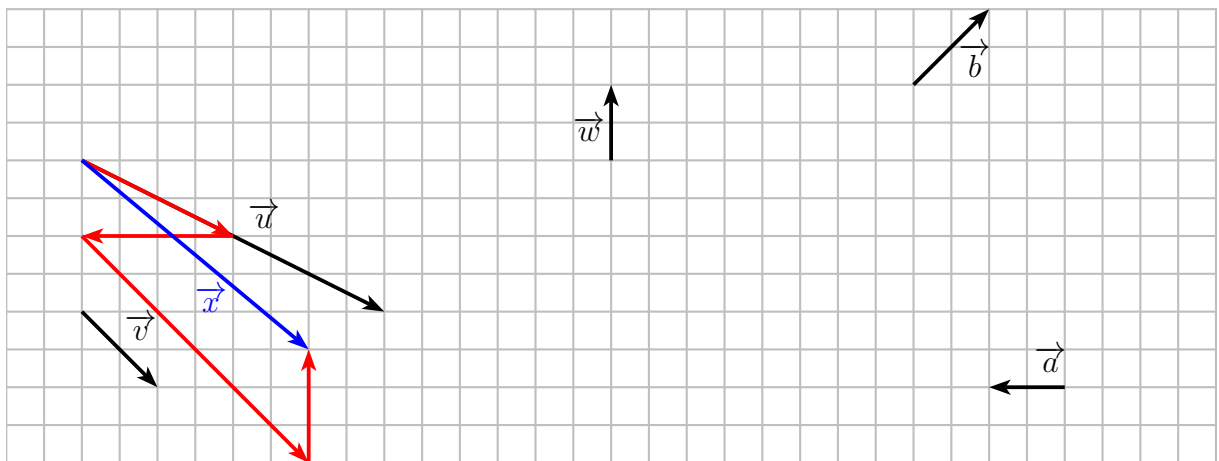
**Exercice 4.**

a) $\vec{u} = -2\vec{a} - 6\vec{b}$

$\vec{u} = -6\vec{a} - 2\vec{b}$

b)





$$c) \quad \vec{v} = -\vec{a} - 2\vec{b} \quad \vec{w} = \vec{a} + \vec{b}$$

$$\vec{x} = -2\vec{a} - 3\vec{b} + 2\vec{a} - 3\vec{a} - 6\vec{b} + 2,5\vec{a} + 2,5\vec{b} = 0,5\vec{a} - 6,5\vec{b}$$

$$\vec{x} = \boxed{\frac{1}{2}\vec{a} - \frac{13}{2}\vec{b}}$$

$$\vec{v} = -2\vec{a} - \vec{b} \quad \vec{w} = \vec{a} + \vec{b}$$

$$\vec{x} = -3\vec{a} - \vec{b} + 2\vec{a} - 6\vec{a} - 3\vec{b} + 1,5\vec{a} + 1,5\vec{b} = -5,5\vec{a} - 2,5\vec{b}$$

$$\vec{x} = \boxed{-\frac{11}{2}\vec{a} - \frac{5}{2}\vec{b}}$$