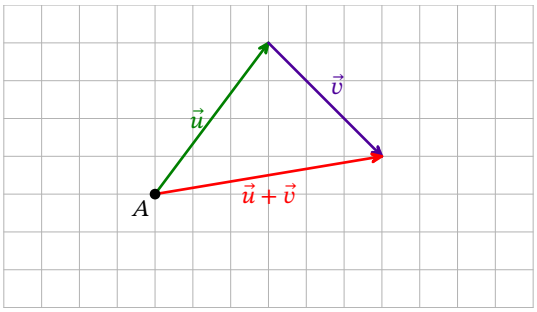
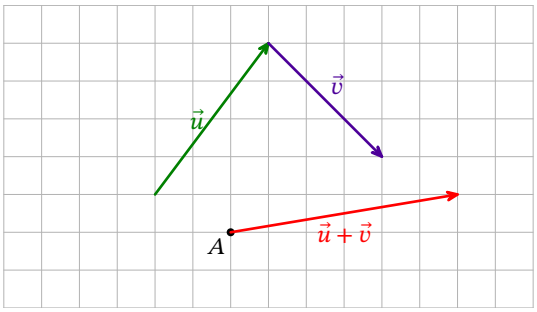
♦ **VEC.9** Dans chacun des cas ci-dessous, construire le vecteur d'origine A égal à la somme $\vec{u}+\vec{v}$.

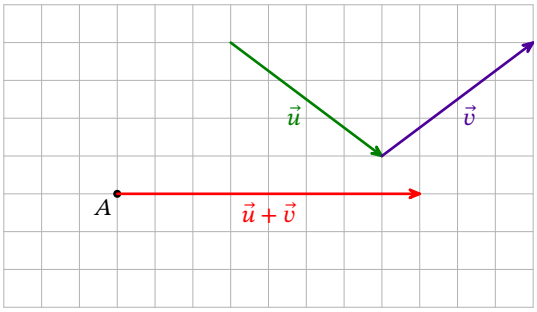
1)



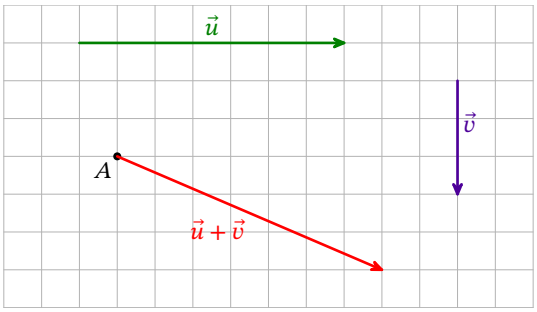
2)



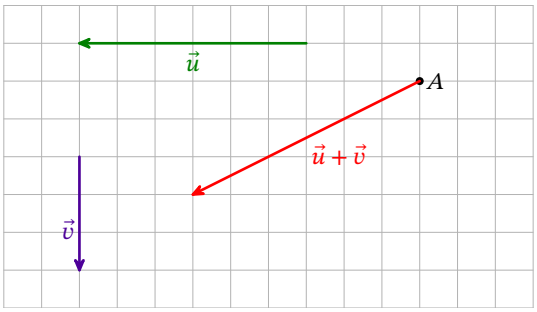
3)



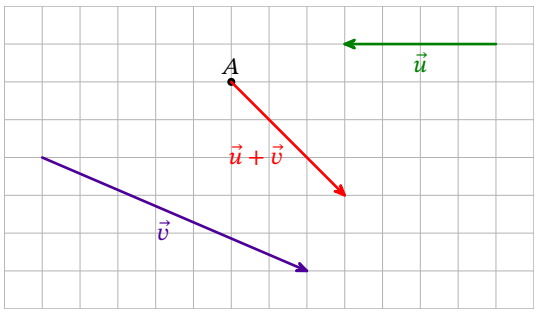
4)



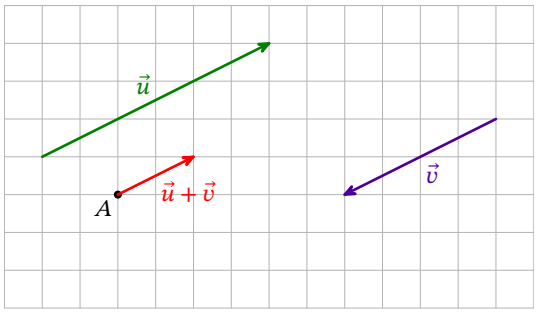
5)



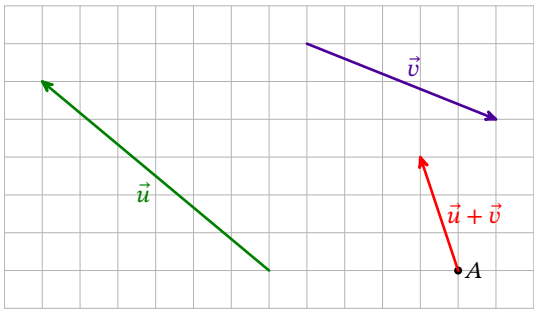
6)



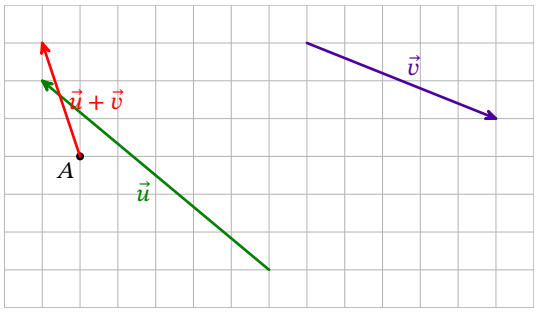
7)



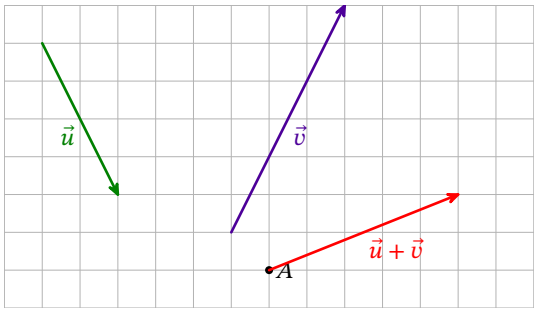
8)



9)

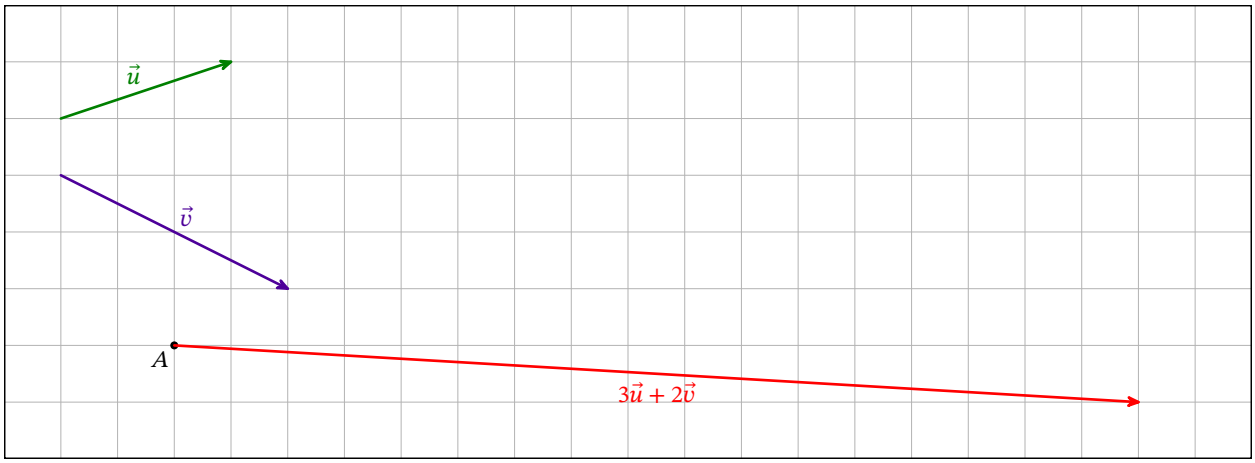


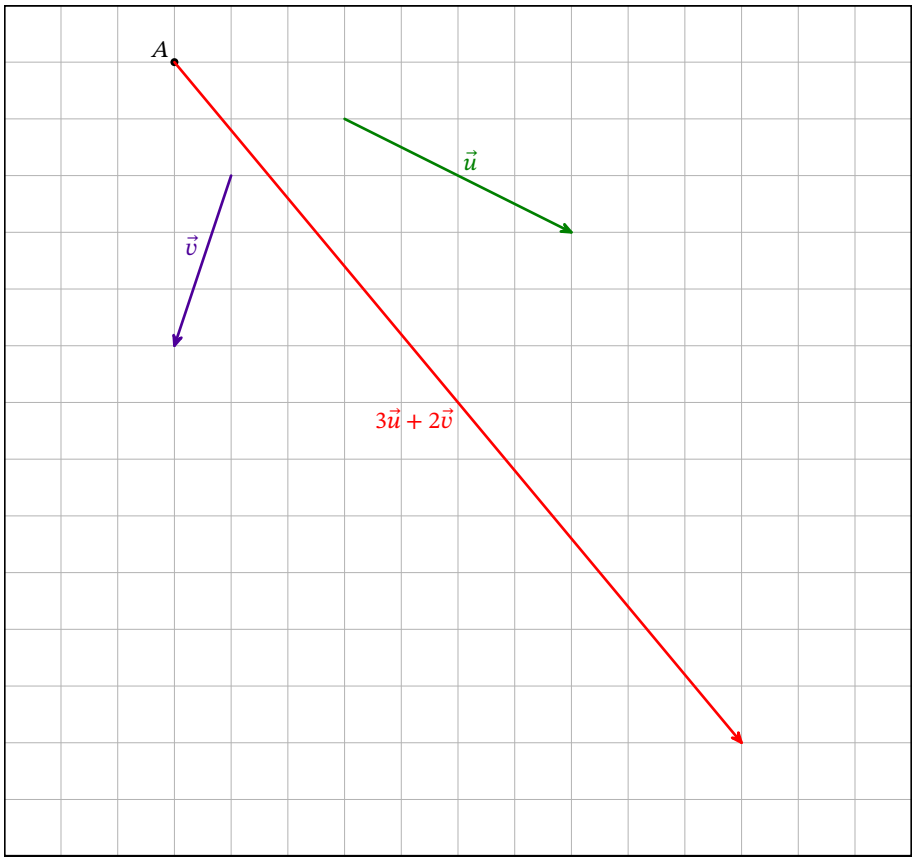
10)



♦ VEC.11

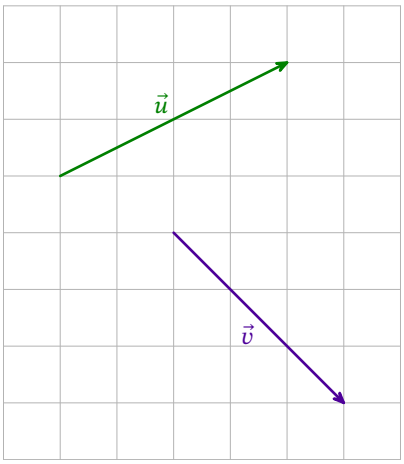
Dans chacun des cas, reproduire la figure et construire le vecteur d'origine A égal à $3\vec{u} + 2\vec{v}$.





♦ VEC.15

On dispose de la figure ci-dessous :



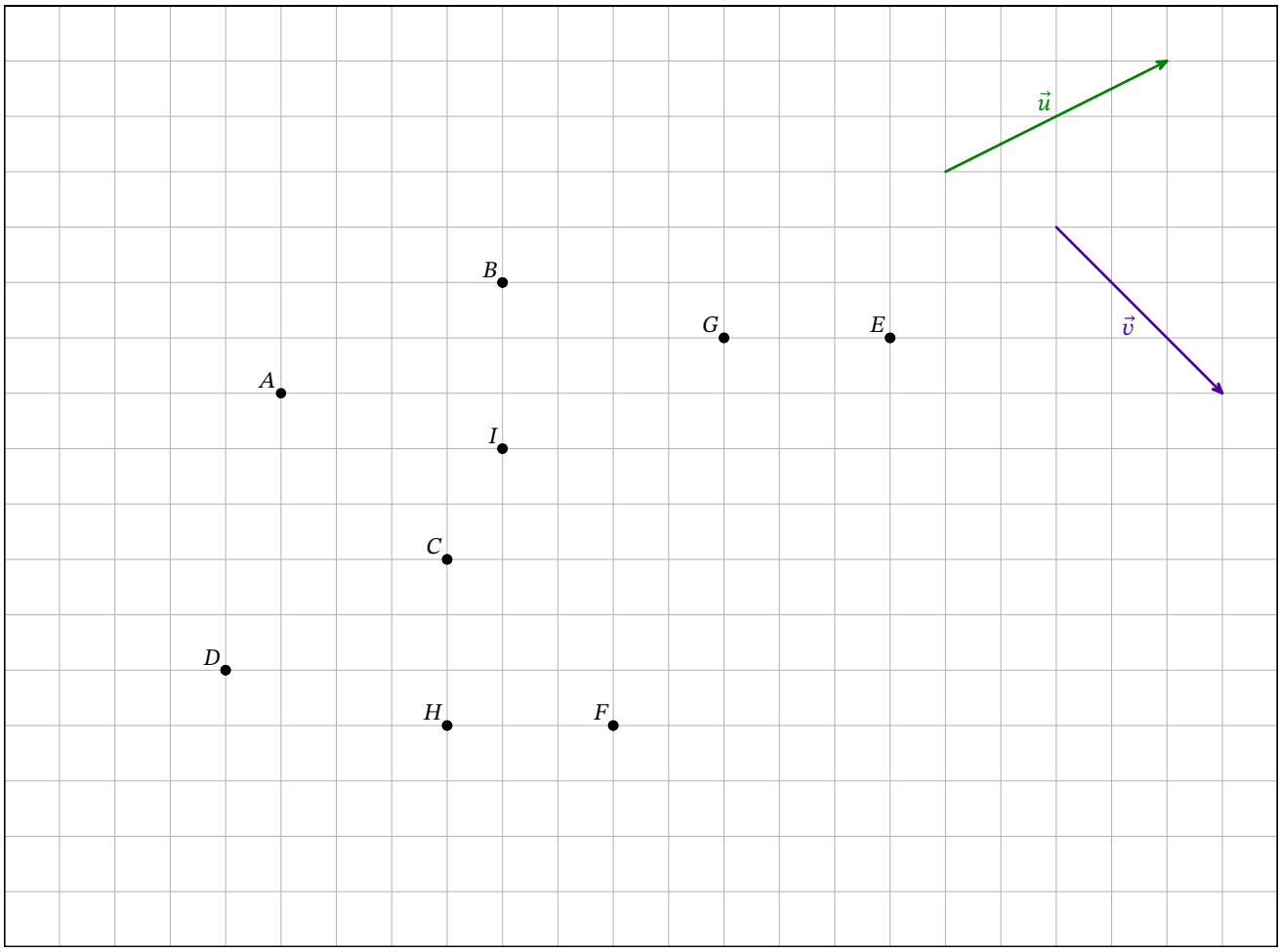
1) Reproduire cette figure et placer un point A.

2) Placer les points B et C tels que $\overrightarrow{AB} = \vec{u}$ et $\overrightarrow{AC} = \vec{v}$.

3) Placer le point D tel que $\overrightarrow{CD} = -\vec{u}$.

4) Placer les points E, F, G, H et I tels que :

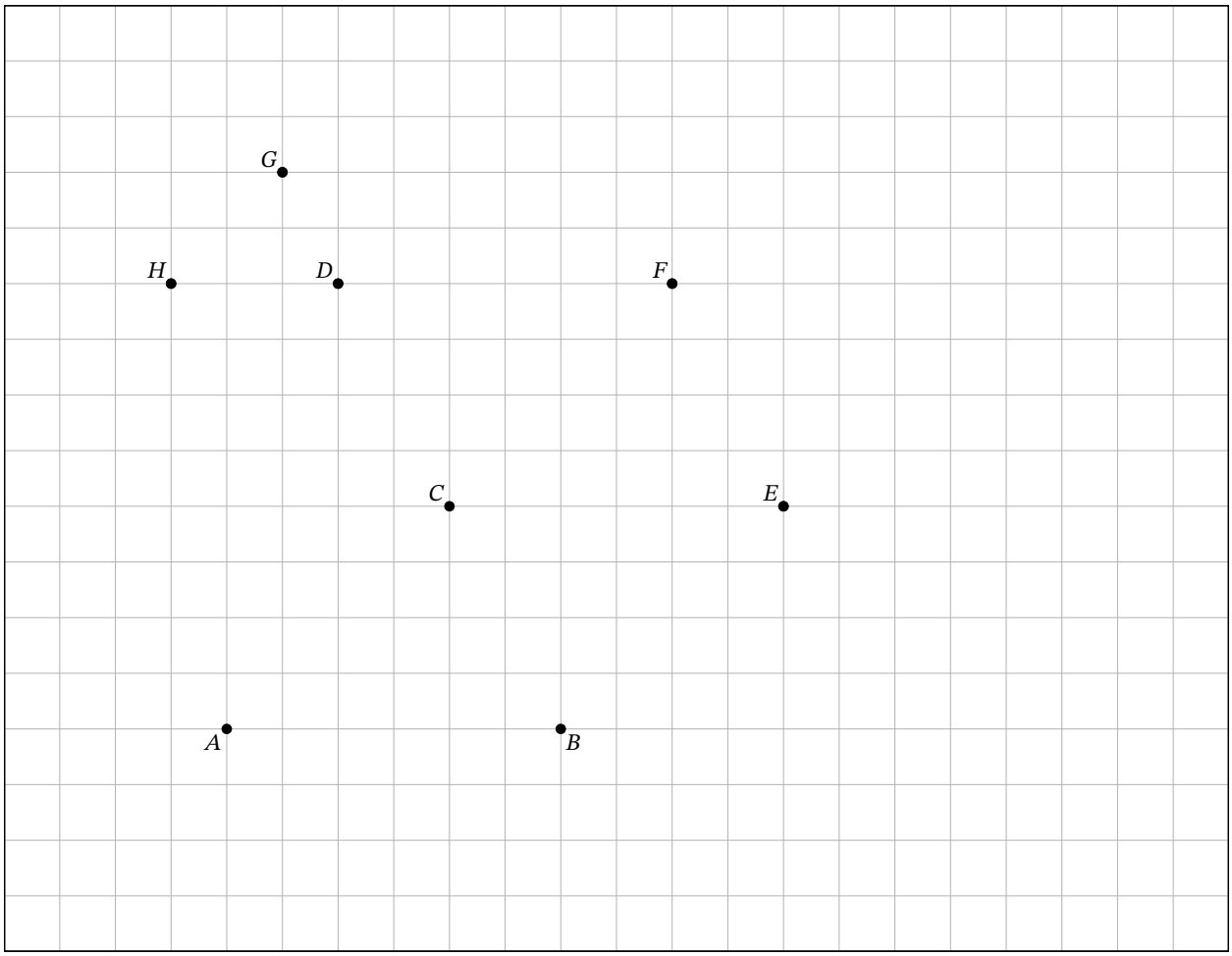
$$\overrightarrow{AE} = 2\vec{u} + \vec{v}; \quad \overrightarrow{BF} = 2\vec{v} - \vec{u}; \quad \overrightarrow{AG} = \frac{3}{2}\vec{u} + \frac{2}{3}\vec{v}; \quad \overrightarrow{BH} = -\frac{3}{2}\vec{u} + \frac{5}{3}\vec{v}; \quad \overrightarrow{EI} = -\frac{3}{2}\vec{u} - \frac{1}{3}\vec{v}.$$



♦ VEC.16

Soit ABC un triangle. Placer les points D, E, F, G et H tels que :

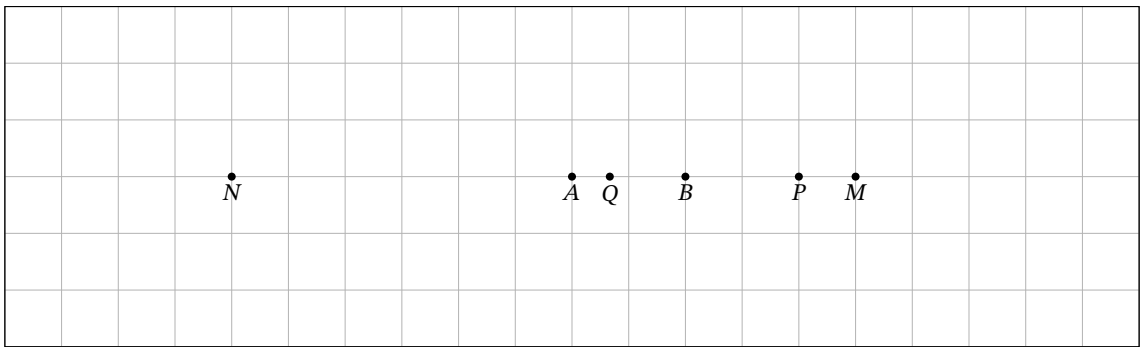
$\overrightarrow{AD} = \overrightarrow{AB} + 2\overrightarrow{BC}$; $\overrightarrow{AE} = \overrightarrow{AC} + \overrightarrow{AB}$; $\overrightarrow{BF} = 2\overrightarrow{AC} + \overrightarrow{BA}$; $\overrightarrow{AG} = \frac{3}{2}\overrightarrow{BC} + \overrightarrow{BE}$; $\overrightarrow{CH} = -\frac{1}{2}\overrightarrow{AB} - \overrightarrow{CB}$.



♦ VEC.17

A et B sont deux points distincts. Placer les points M, N, P et Q tels que :

$\overrightarrow{AM} = \frac{5}{2}\overrightarrow{AB}$; $\overrightarrow{NA} = 3\overrightarrow{AB}$; $\overrightarrow{BP} = \overrightarrow{AB}$; $\overrightarrow{BQ} = -2\overrightarrow{AQ}$.



♦ VEC.18

Soit ABC un triangle. Placer les points D, E, F et G tels que :
$\overrightarrow{AD} = \overrightarrow{AB} + 2\overrightarrow{AC}$; $\overrightarrow{EA} = \overrightarrow{CA} + \overrightarrow{CB}$; $\overrightarrow{FB} + \overrightarrow{AC} = 2\overrightarrow{BC}$; $\overrightarrow{AG} + \overrightarrow{BG} = \overrightarrow{AB} - 2\overrightarrow{BC}$.