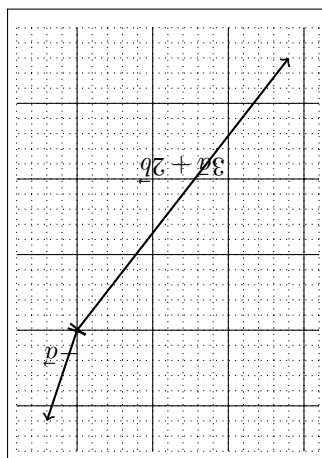
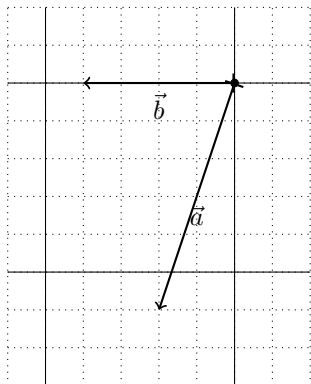


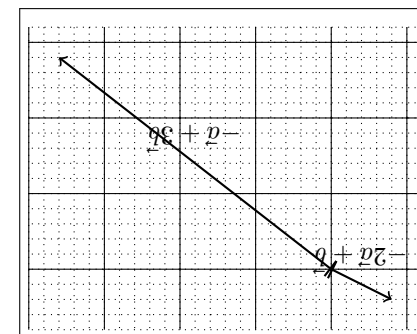
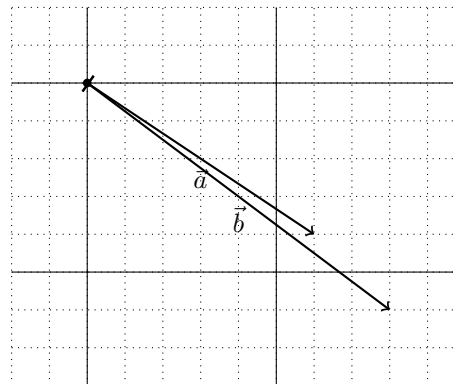
Vektorok, vektorműveletek

1. Adottak az \vec{a} és \vec{b} vektorok. Szerkeszd meg a kért vektorokat!

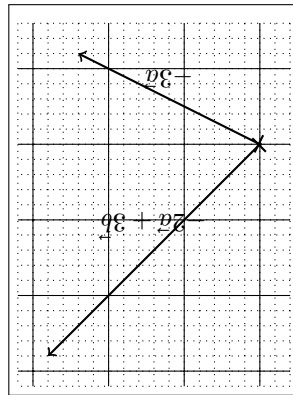
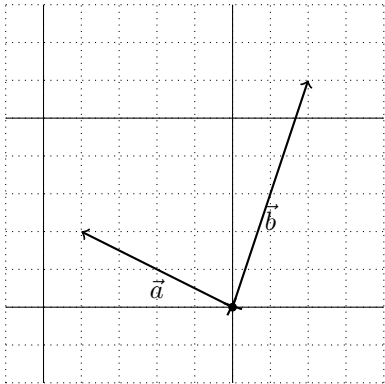
a) $3\vec{a} + 2\vec{b}$; $-\vec{a}$



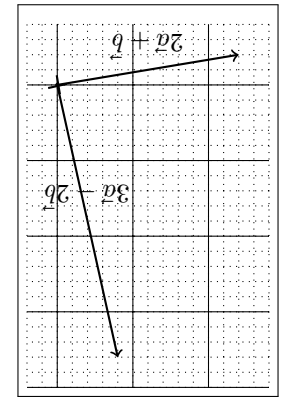
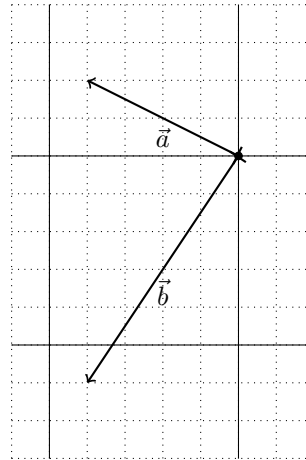
b) $-2\vec{a} + \vec{b}$; $-\vec{a} + 3\vec{b}$



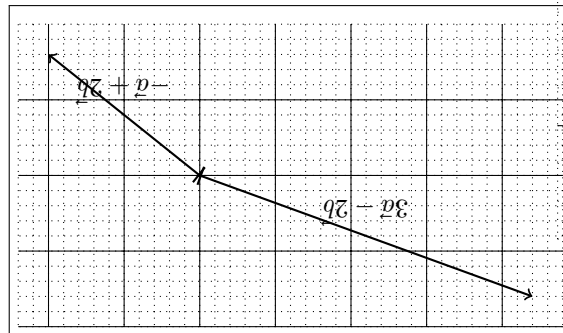
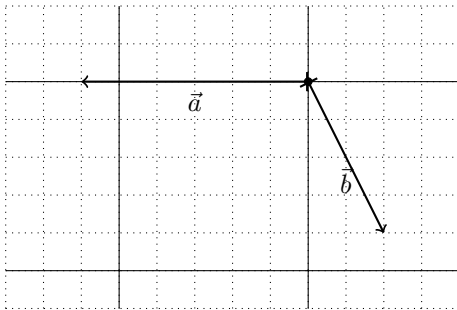
c) $-3\vec{a}$; $-2\vec{a} + 3\vec{b}$



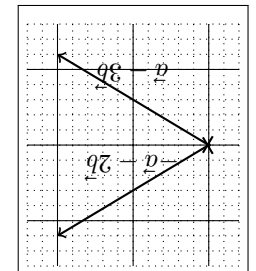
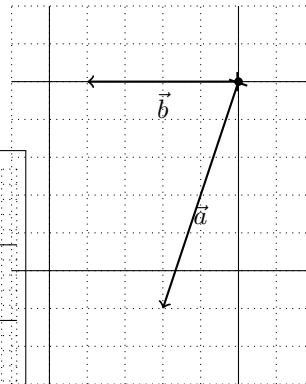
d) $3\vec{a} - 2\vec{b}$; $2\vec{a} + \vec{b}$



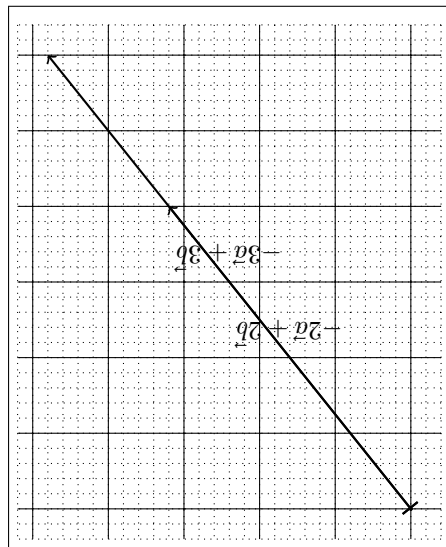
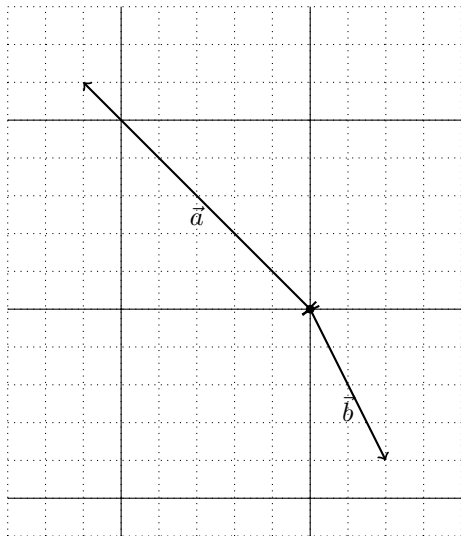
e) $-\vec{a} + 2\vec{b}$; $3\vec{a} - 2\vec{b}$



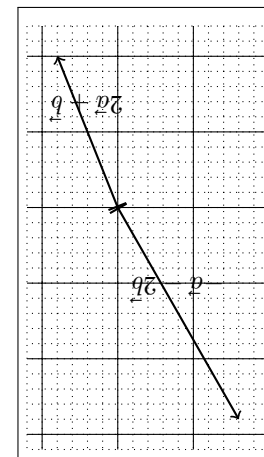
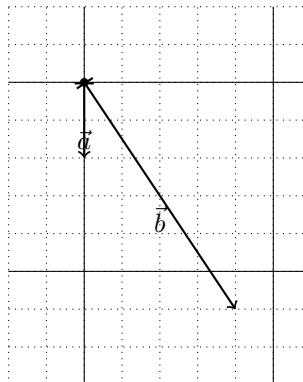
f) $-\vec{a} - 2\vec{b}$; $\vec{a} - 3\vec{b}$



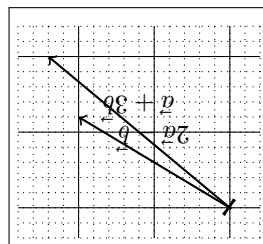
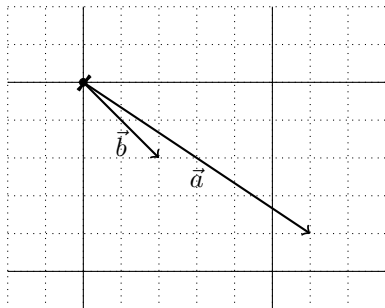
g) $-3\vec{a} + 3\vec{b}$; $-2\vec{a} + 2\vec{b}$



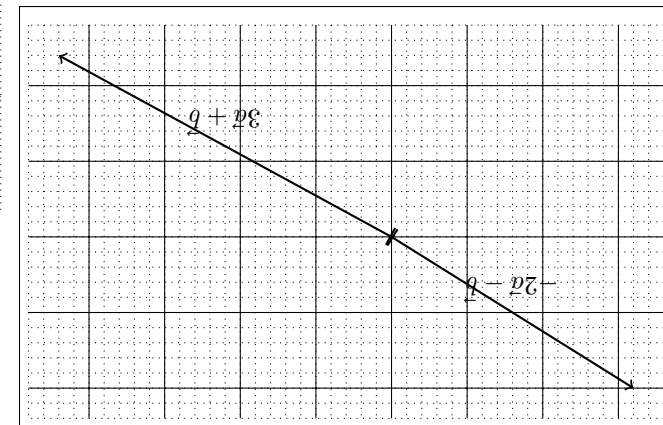
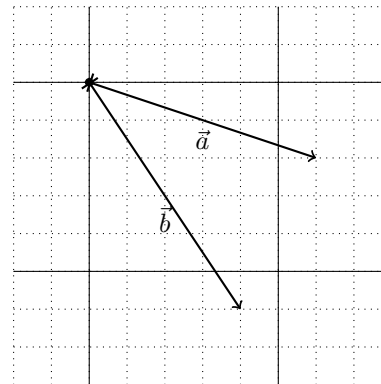
h) $-\vec{a} - 2\vec{b}$; $2\vec{a} + \vec{b}$



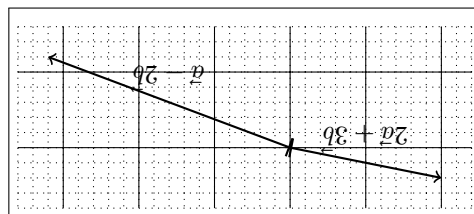
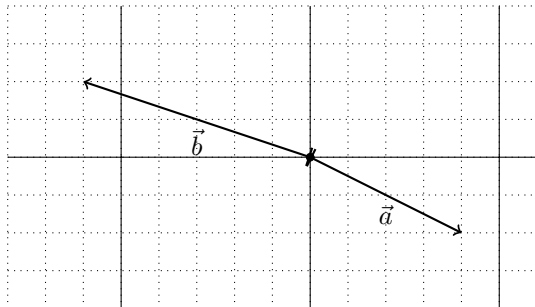
i) $\vec{a} + 3\vec{b}; 2\vec{a} - \vec{b}$



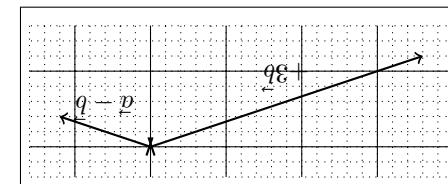
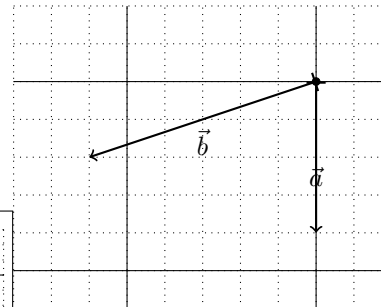
j) $-2\vec{a} - \vec{b}; 3\vec{a} + \vec{b}$



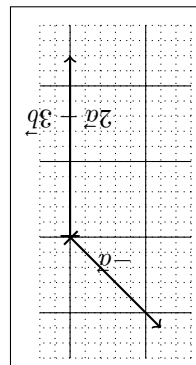
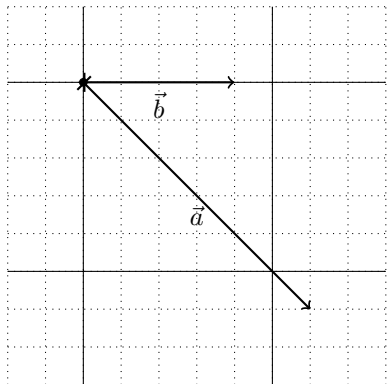
k) $\vec{a} - 2\vec{b}; 2\vec{a} + 3\vec{b}$



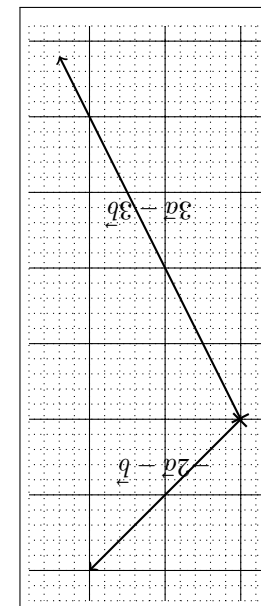
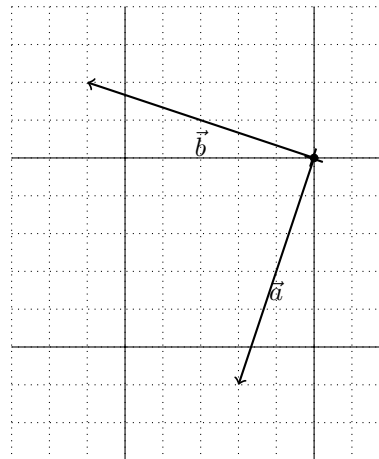
l) $+3\vec{b}; \vec{a} - \vec{b}$



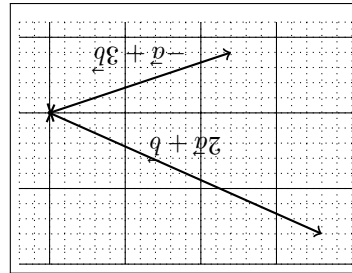
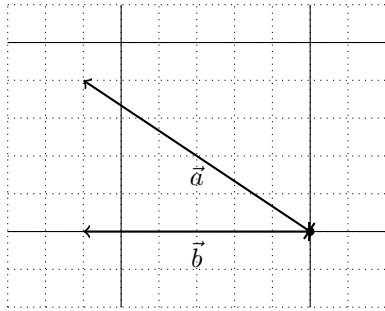
m) $2\vec{a} - 3\vec{b}; -\vec{a}$



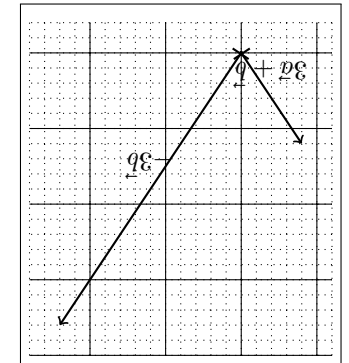
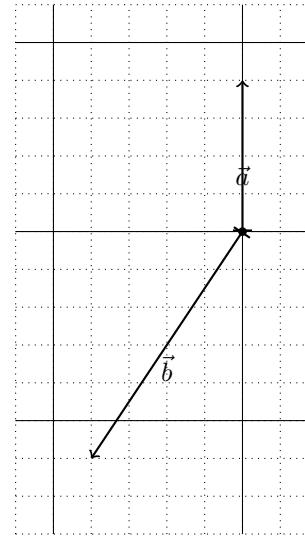
n) $3\vec{a} - 3\vec{b}; -2\vec{a} - \vec{b}$



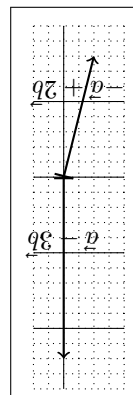
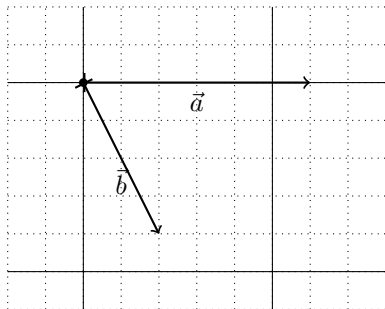
o) $-\vec{a} + 3\vec{b}$; $2\vec{a} + \vec{b}$



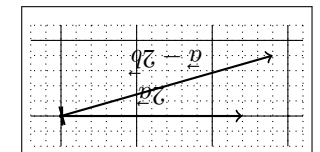
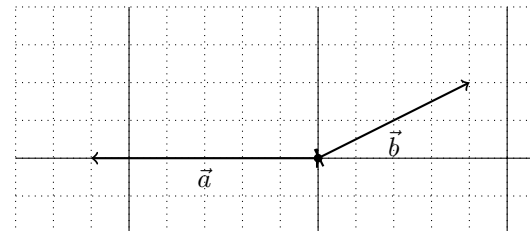
p) $3\vec{a} + \vec{b}$; $-3\vec{b}$



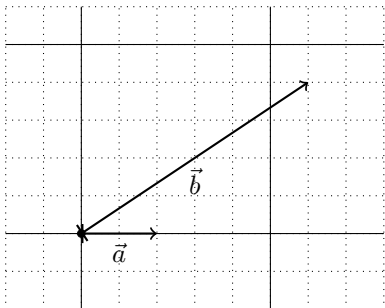
q) $\vec{a} - 3\vec{b}$; $-\vec{a} + 2\vec{b}$



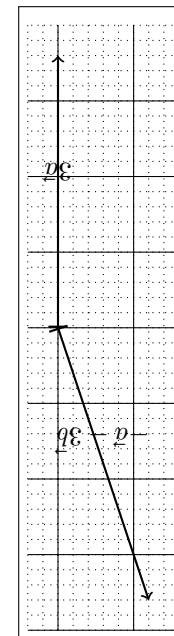
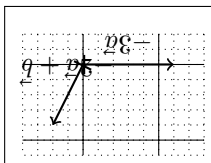
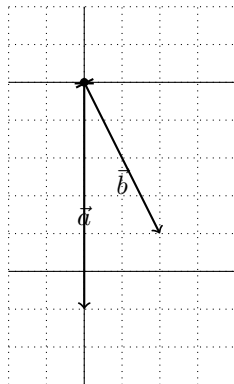
r) $2\vec{a}$; $\vec{a} - 2\vec{b}$



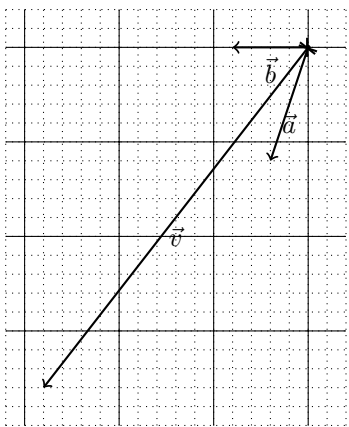
s) $-2\vec{a} + \vec{b}; -3\vec{a}$



t) $3\vec{a}; -\vec{a} - 3\vec{b}$

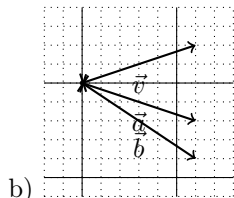


2. Írd fel a \vec{v} vektort az \vec{a} és a \vec{b} vektorok segítségével!



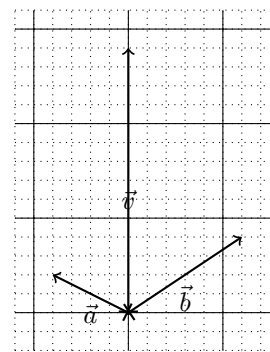
a)

$3\vec{a} + 2\vec{b}$



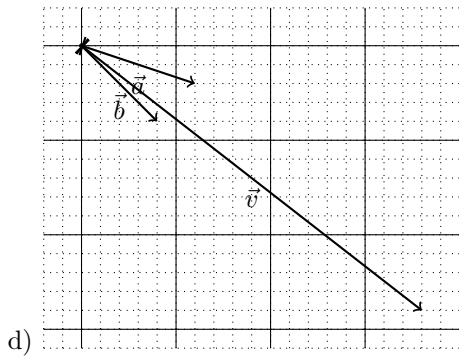
b)

$3\vec{a} - 2\vec{b}$

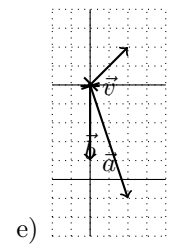


c)

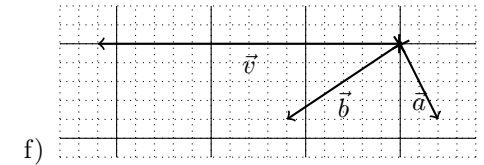
$2\vec{a} + 3\vec{b}$



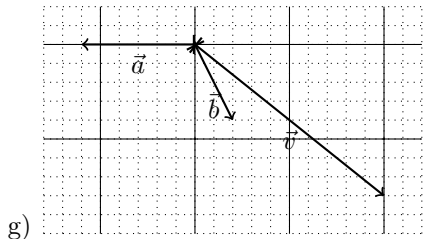
$$\vec{v} = \vec{a} + \vec{b}$$



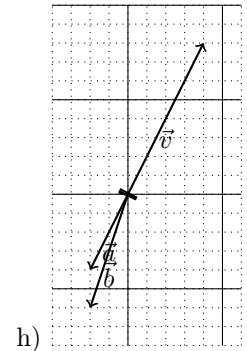
$$\vec{v} = \vec{a} + \vec{b}$$



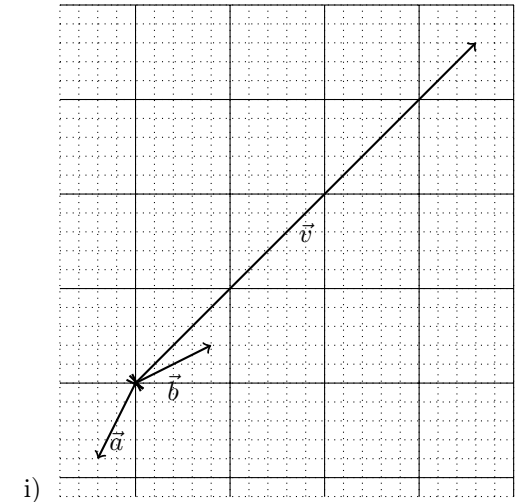
$$\vec{v} = \vec{a} + \vec{b}$$



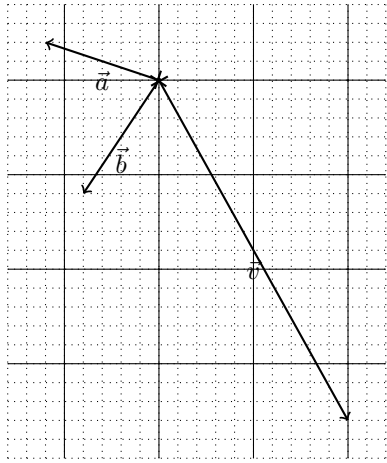
$$\vec{v} = \vec{a} + \vec{b}$$



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

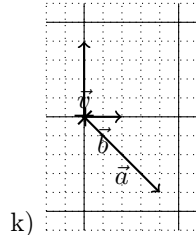


$$\vec{v} = \vec{a} + \vec{b}$$



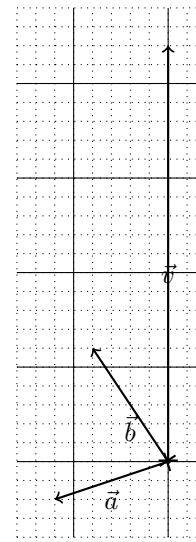
j)

$$\underline{3\vec{a} + 2\vec{b}}$$



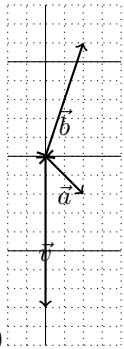
k)

$$\underline{2\vec{a} + \vec{b}}$$



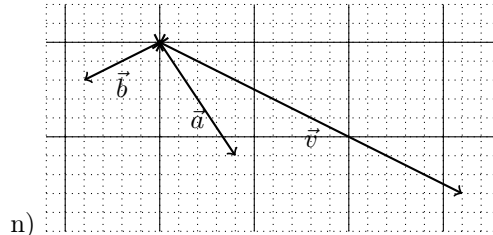
l)

$$\underline{-2\vec{a} + 3\vec{b}}$$



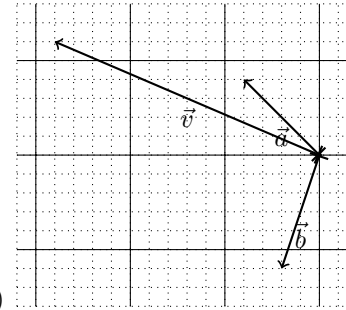
m)

$$\underline{\vec{a} - \vec{b}}$$



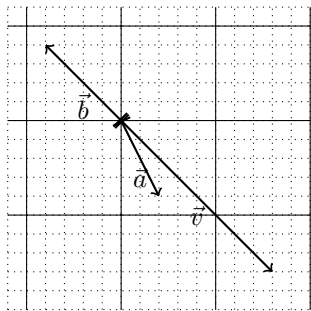
n)

$$\underline{2\vec{a} - \vec{b}}$$



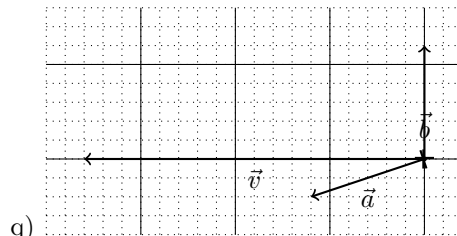
o)

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



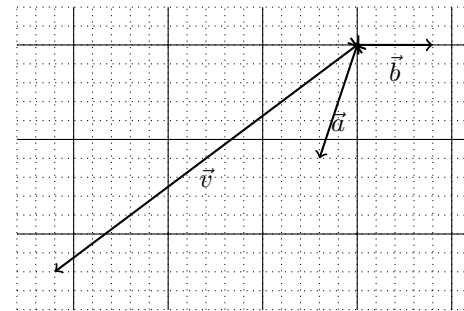
p)

$$\underline{2\vec{a} - \vec{b}}$$



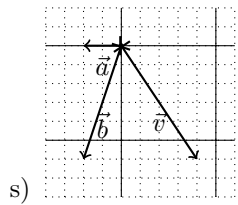
q)

$$\underline{3\vec{a} + \vec{b}}$$



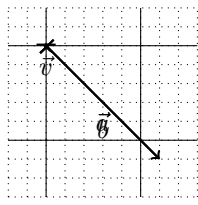
r)

$$\underline{2\vec{a} - \vec{b}}$$



$$\underline{q} + 2\varepsilon -$$

t)



$$\underline{q\varepsilon} - 2\varepsilon$$