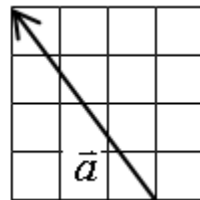
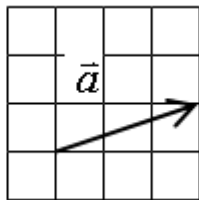
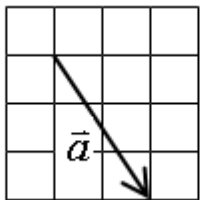
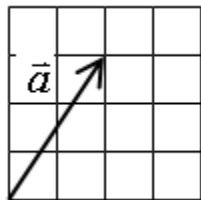


向量複習

1. 寫出下列向量的座標表示: (x 改變, y 改變)

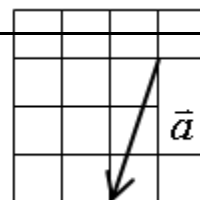
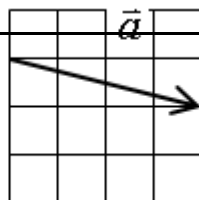
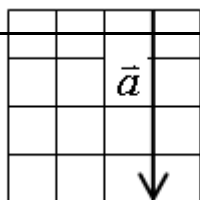
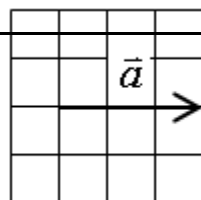
$$\vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad)$$

$$|\vec{a}| = \quad \quad |\vec{a}| = \quad \quad |\vec{a}| = \quad \quad |\vec{a}| = \quad$$

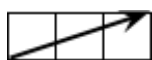


$$\vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad) \quad \vec{a} = (\quad , \quad)$$

$$|\vec{a}| = \quad \quad |\vec{a}| = \quad$$

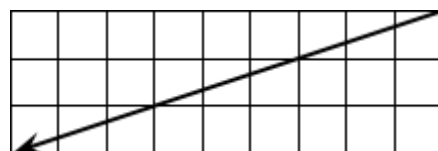
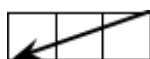


2. 向量的係數積 $\vec{u}$



(1) 以向量 $\vec{u}$ 表示下列向量

(a) _____ (b) _____ (c) _____ (d) _____



(2) 寫出以上向量的座標

給向量座標時 向量係數積直接個別乘進去

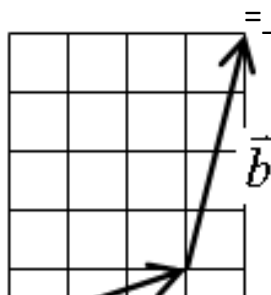
3. 設向量 $\vec{a} = (2, -3)$

(1) 求 $3\vec{a} =$ _____ (2) 求 $-2\vec{a} =$ _____

(3) 求 $-\vec{a} =$ _____ (4) 求 $\vec{a} + (-\vec{a}) =$ _____ = _____

4. (1) 寫出 $\vec{a} =$ _____ 與 $\vec{b} =$ _____

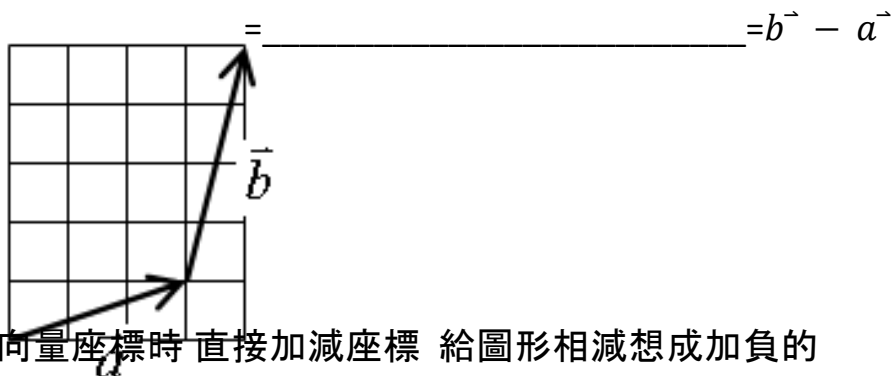
(2) 畫出 $\vec{a} + \vec{b}$ (3) 寫出 $\vec{a} + \vec{b} =$ _____



5.(1)畫出

(2)畫出

(3)寫出 $\vec{b} + (-\vec{a}) = \underline{\hspace{2cm}}$



6.設向量 $\vec{a}=(2,-3)$, $\vec{b}=(2,3)$

(1)求 $\vec{a} + \vec{b} =$

(2)求 $3\vec{a} + \vec{b} =$

(3)求 $2\vec{a} - \vec{b} =$

(4)求 $|2\vec{a} - \vec{b}| =$

5.向量內積: 向量彼此影響力-投影向量相乘(往對方方向投影)

6.座標向量內積: x 分量與 y 分量相乘相加(皆往座標軸投影)