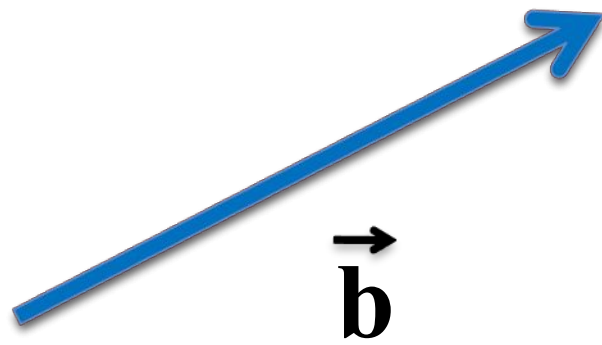
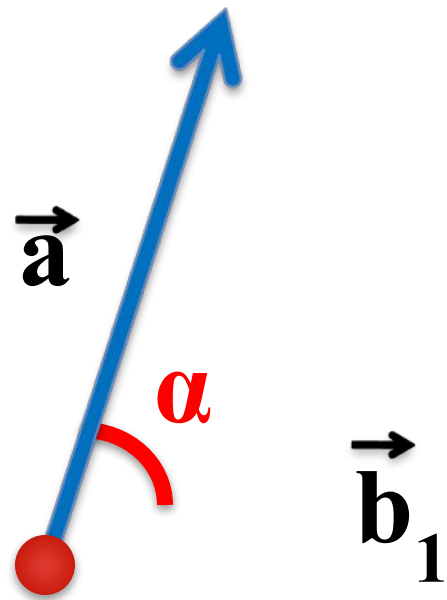


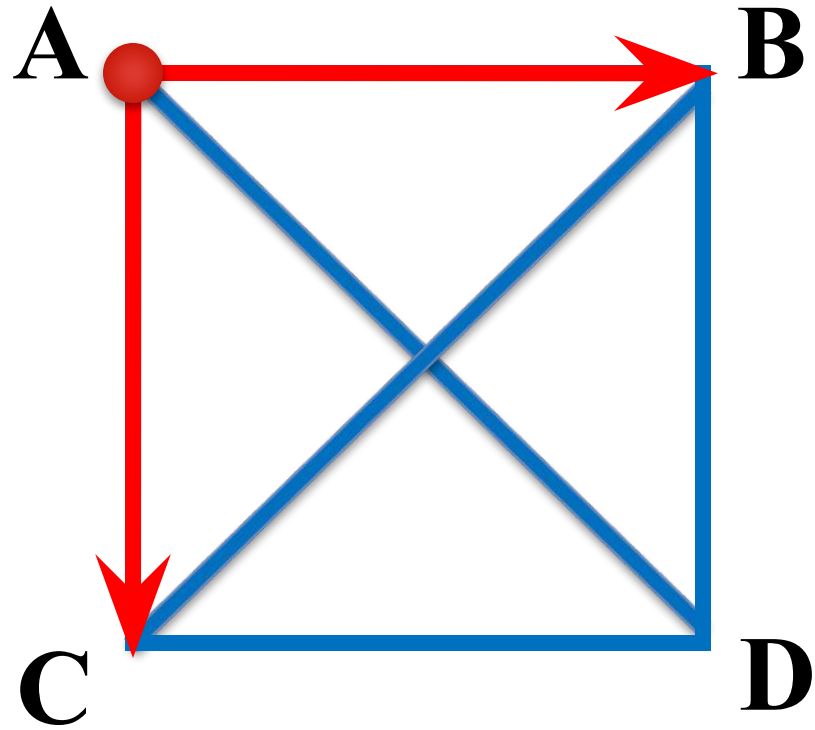


# Угол между векторами

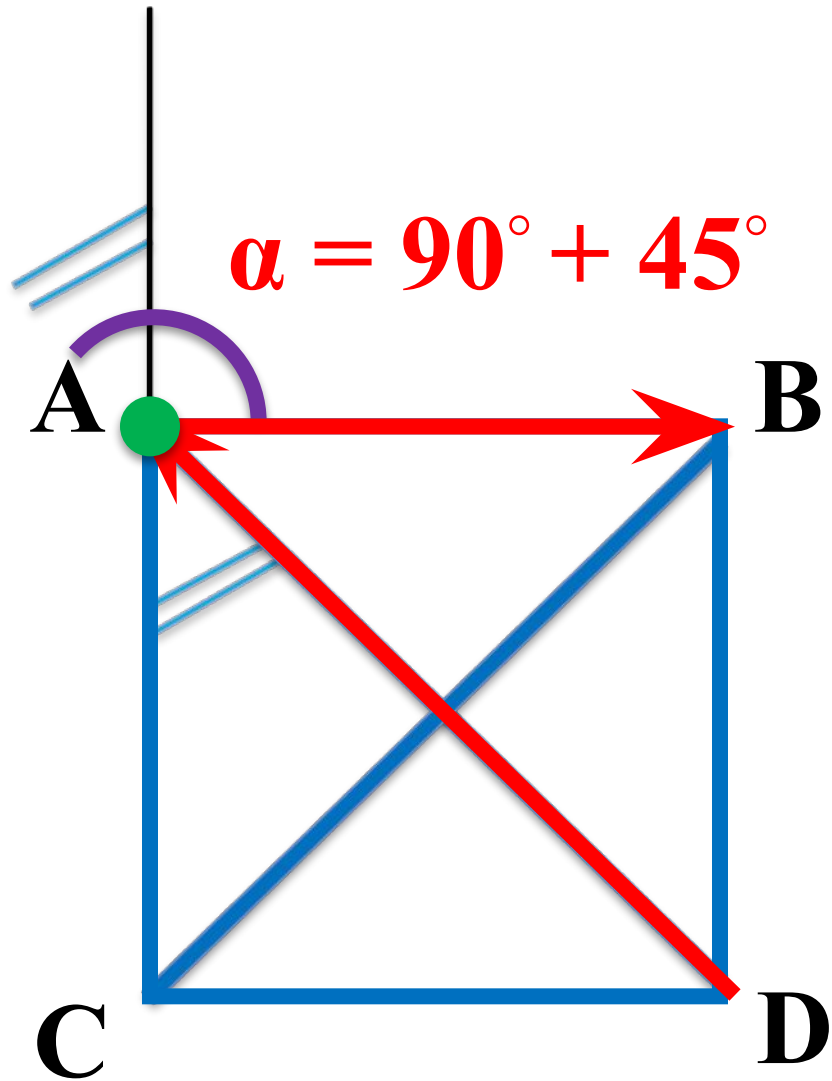
**Скалярное произведение векторов**



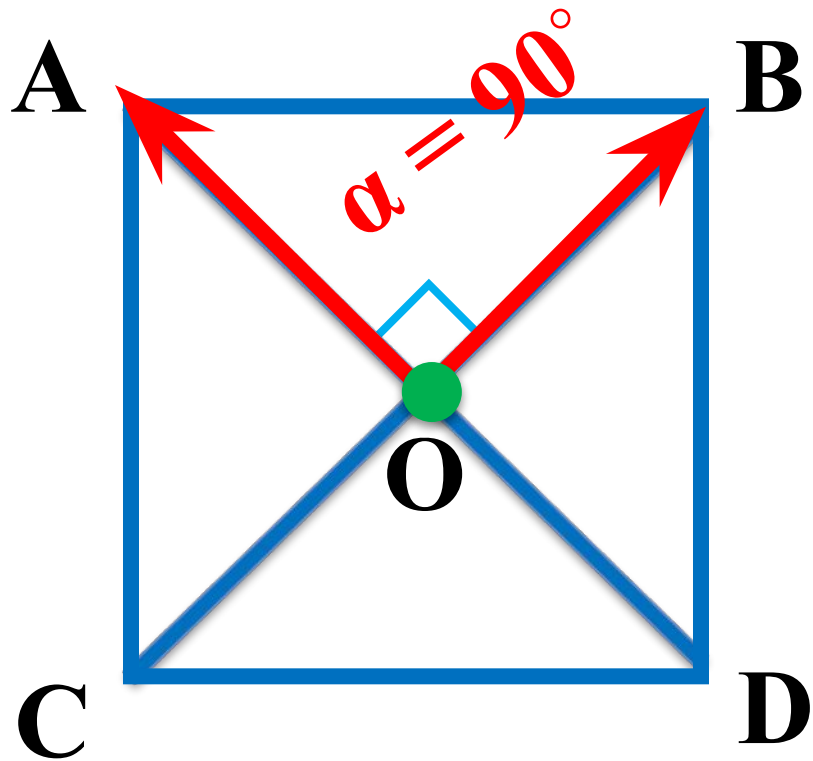
$$\widehat{\vec{AB} \ \vec{AC}} = 90^\circ$$



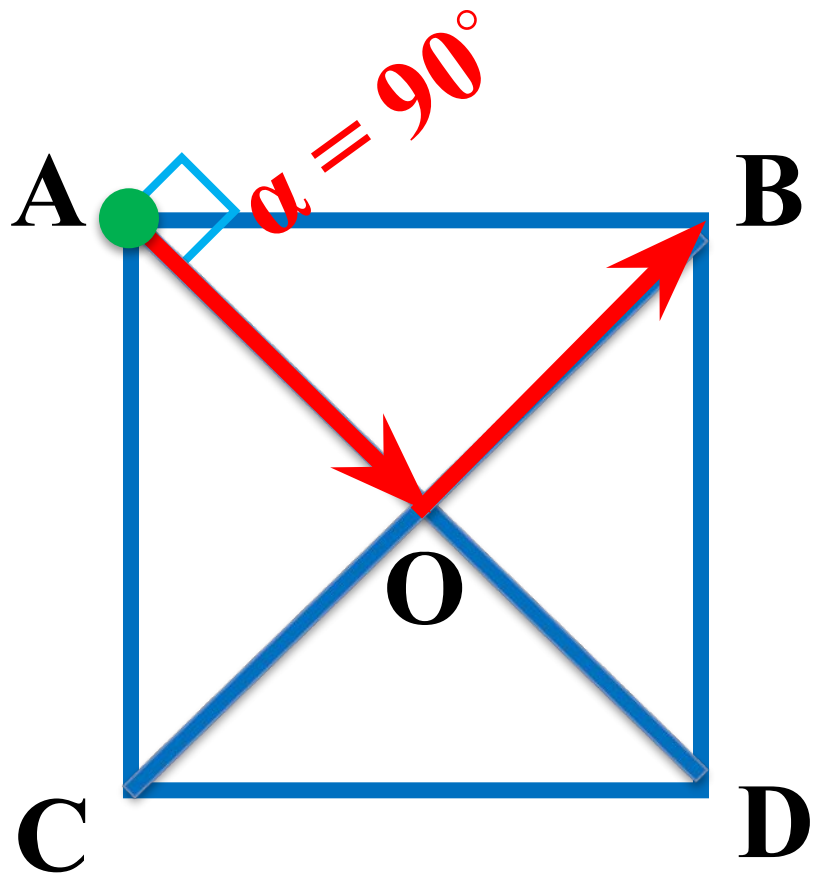
$$\widehat{\overrightarrow{AB} \overrightarrow{DA}} = 135^\circ$$



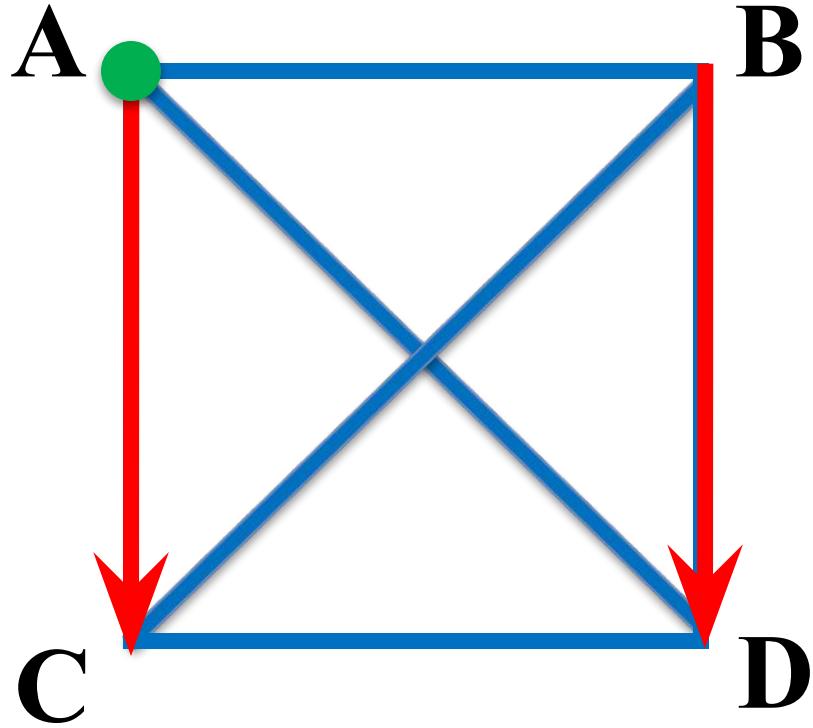
$$\overrightarrow{OA} \perp \overrightarrow{OB} = 90^\circ$$



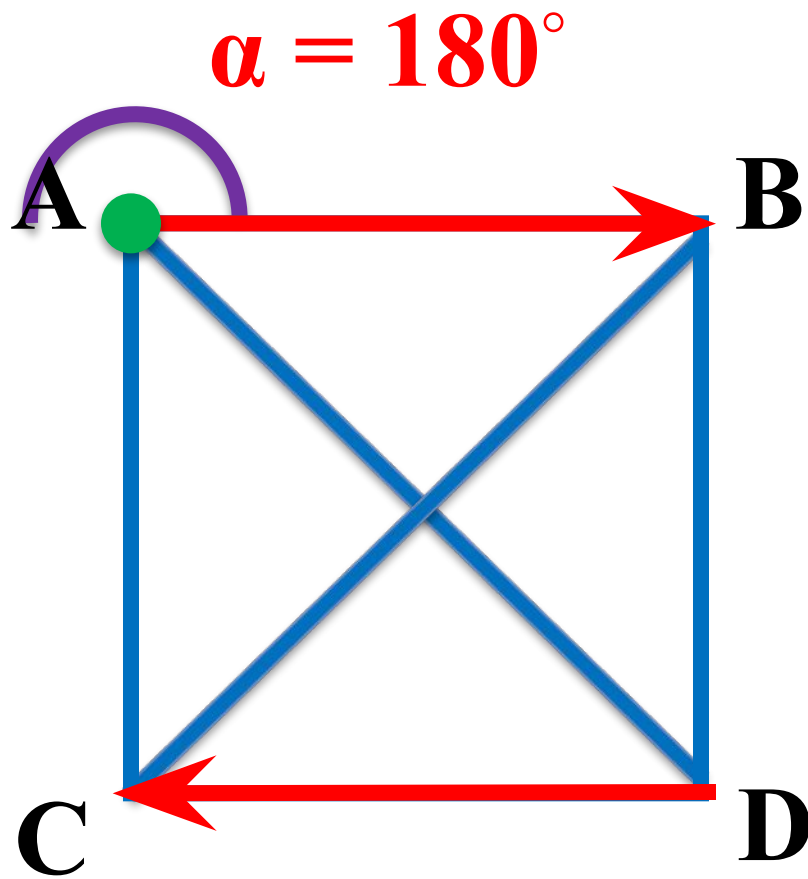
$$\overrightarrow{AO} \perp \overrightarrow{OB} = 90^\circ$$



$$\overrightarrow{AC} \cdot \overrightarrow{BD} = 0^\circ$$

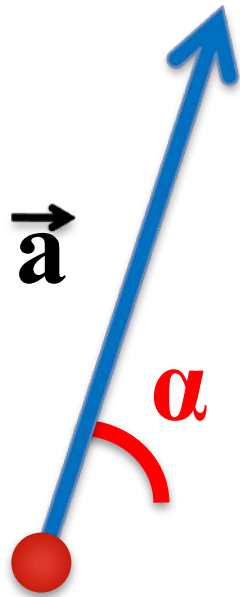


$$\overrightarrow{AB} \quad \overrightarrow{DC} = 180^\circ$$

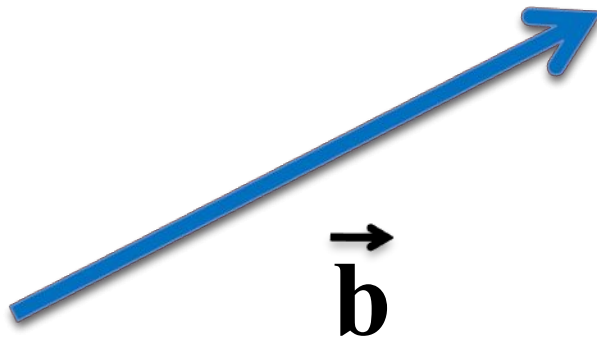




# Скалярное произведение векторов

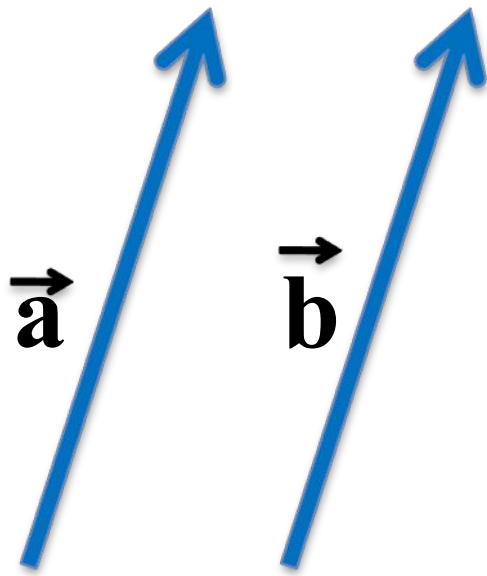


$$\vec{a} \cdot \vec{b} = |\vec{a}| \cdot |\vec{b}| \cos (\widehat{\vec{a} \vec{b}})$$



# Скалярное произведение векторов

$$\vec{a} \cdot \vec{b} = |\vec{a}| \cdot |\vec{b}| \cos (\widehat{\vec{a} \vec{b}})$$

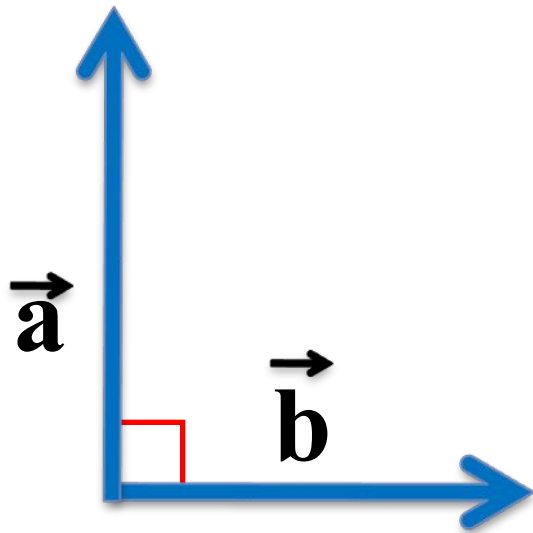


$$\vec{a} \uparrow \uparrow \vec{b}$$
$$\widehat{\vec{a} \vec{b}} = 0^\circ$$

$$\vec{a} \cdot \vec{b} = |\mathbf{a}| \cdot |\mathbf{b}|$$

# Скалярное произведение векторов

$$\vec{a} \cdot \vec{b} = |\vec{a}| \cdot |\vec{b}| \cos (\widehat{\vec{a} \vec{b}})$$



$$\vec{a} \perp \vec{b}$$

$$\widehat{\vec{a} \vec{b}} = 90^\circ$$

$$\vec{a} \cdot \vec{b} = 0$$



**Тема**

**Скалярное произведение  
в координатах**

**д/з п. 103    стр. 266-267**

**№ 1043, 1044**