

Векторы

9 класс

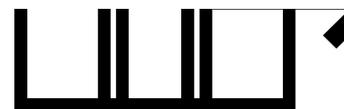
Подготовил: Мехедов Игорь Сергеевич,
учитель математики Влазовичской СОШ

2008 г.

900igr.net



AB



AB

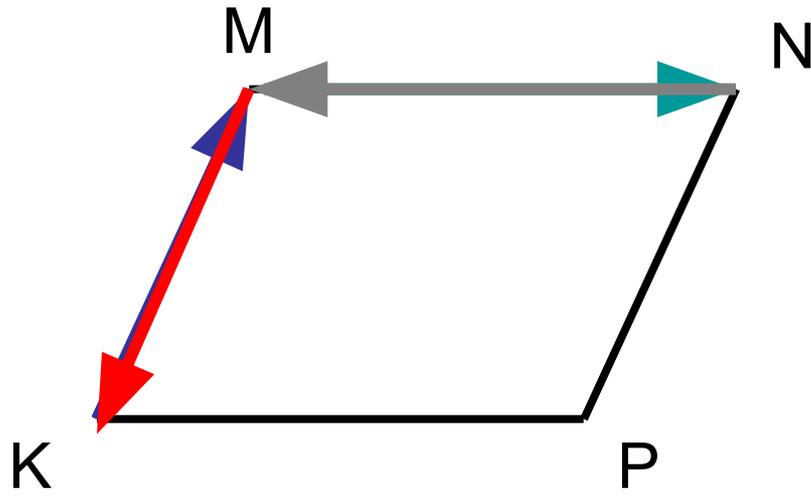


BA



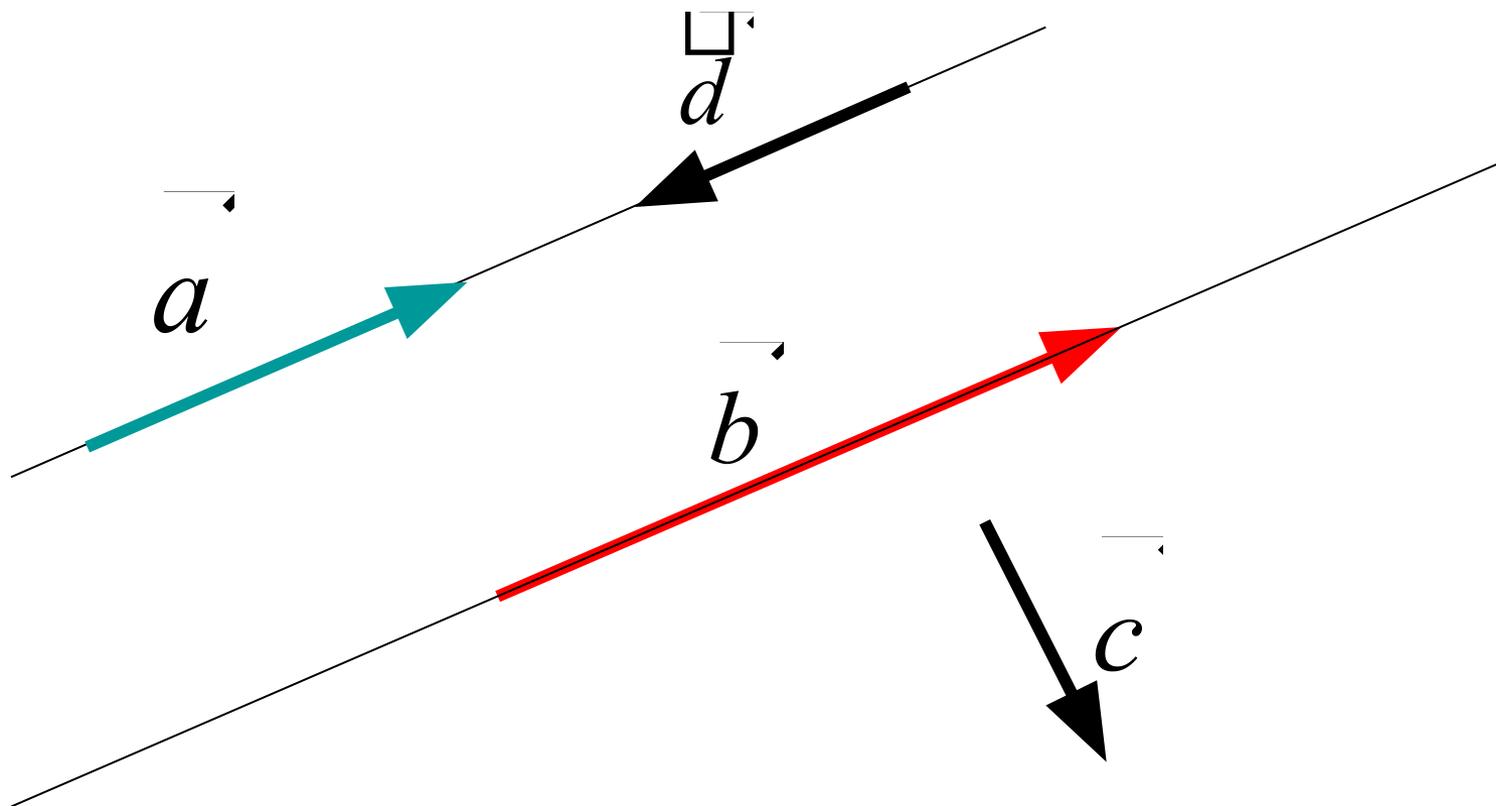
CC

• C

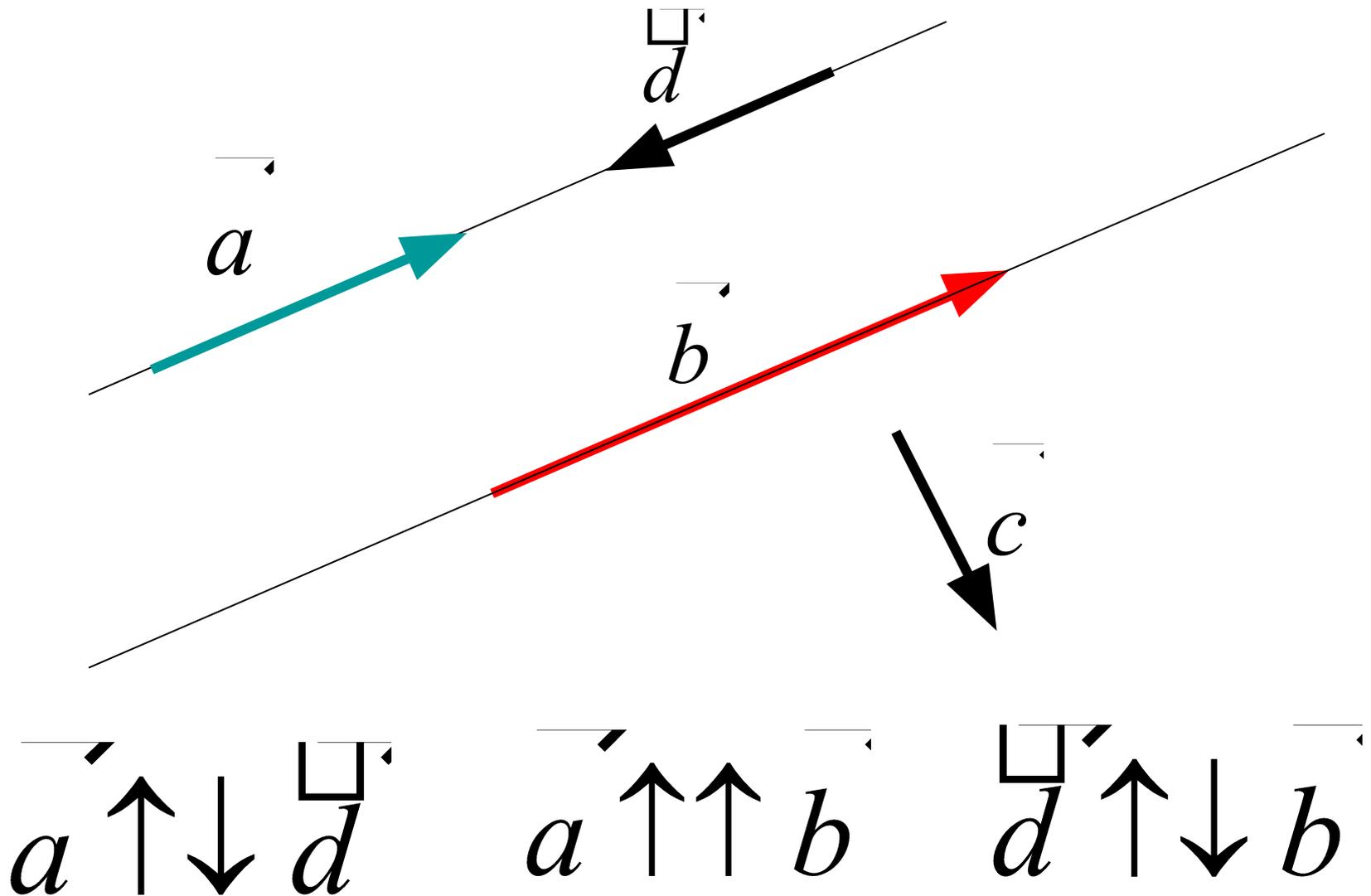


$$\overrightarrow{KM} \stackrel{?}{=} \overrightarrow{MK}$$

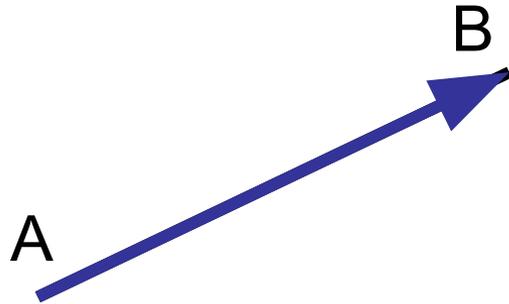
Коллинеарные вектора



Коллинеарные векторы



Длина (модуль) вектора



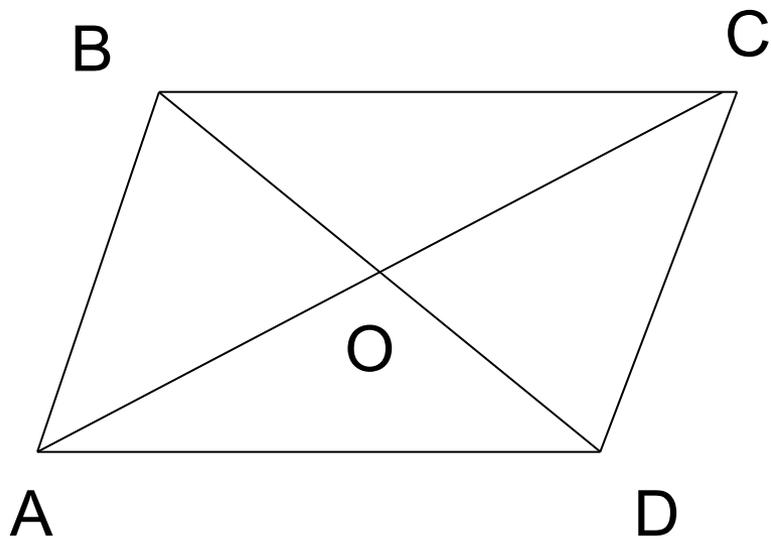
$$AB = 15 \text{ см}$$

$$\left| \overrightarrow{AB} \right| = AB$$

$$\left| \overrightarrow{AB} \right| = 15 \text{ см}$$



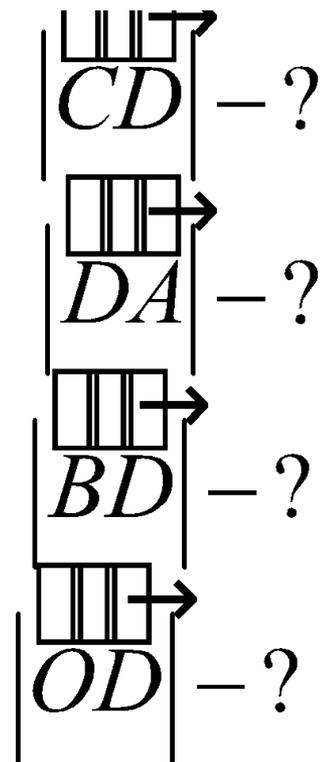
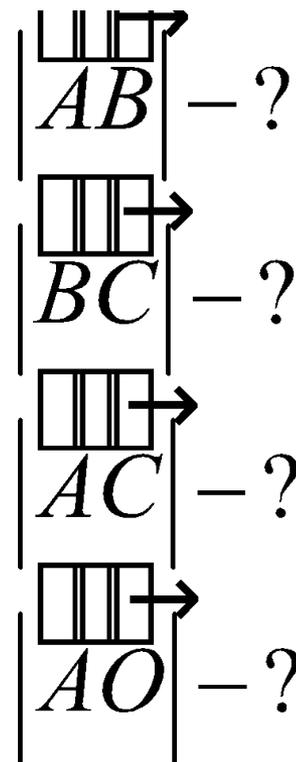
$$\left| \overrightarrow{MM} \right| = 0$$



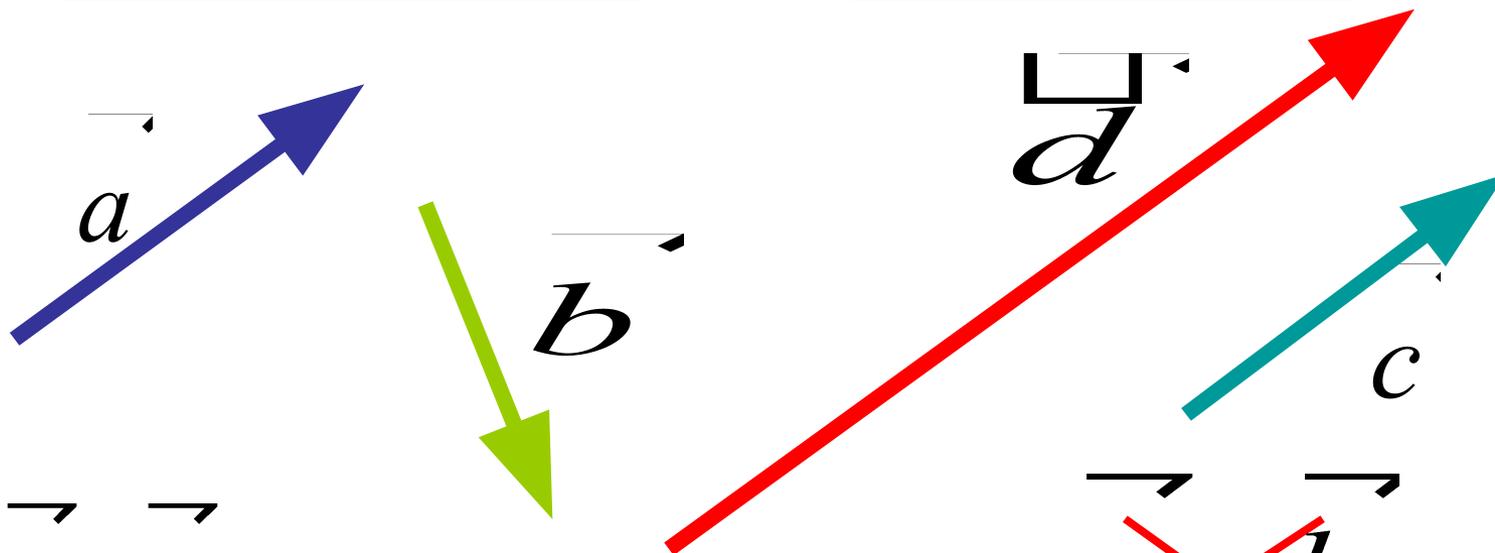
$$AB = 5$$

$$CD = 8$$

$$AC = 12$$



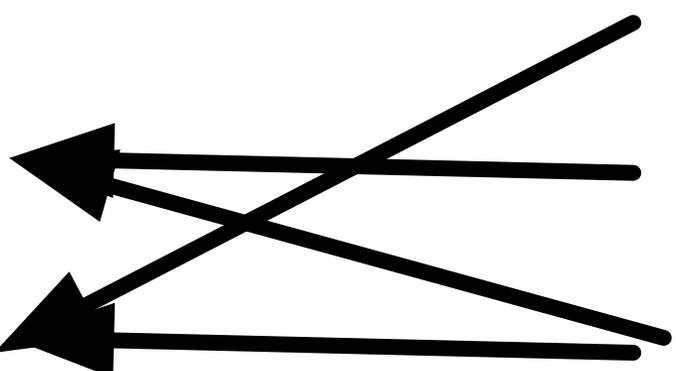
Векторы называются равными, если они сонаправлены и их длины равны



$$\vec{a} = \vec{c}$$

$$1) \vec{a} \uparrow \uparrow \vec{c}$$

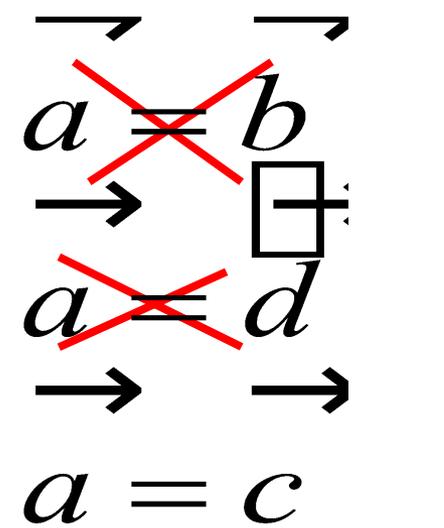
$$2) |\vec{a}| = |\vec{c}|$$



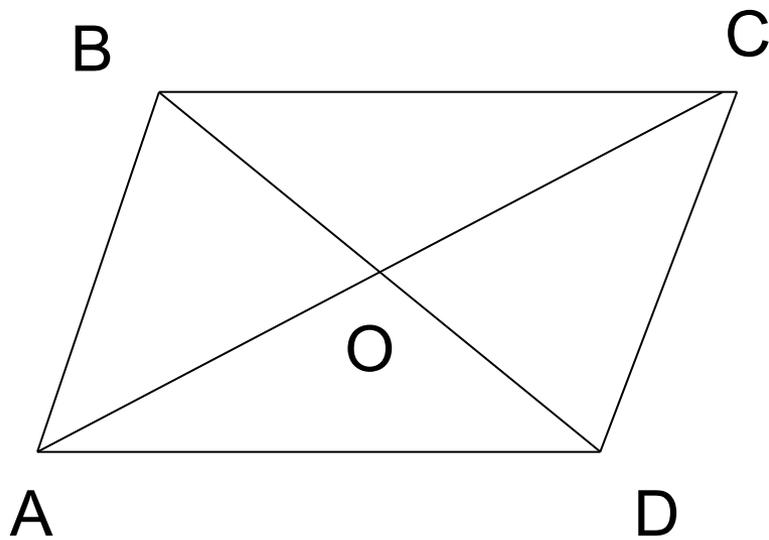
~~$$\vec{a} = \vec{b}$$~~

~~$$\vec{a} = \vec{d}$$~~

$$\vec{a} = \vec{c}$$

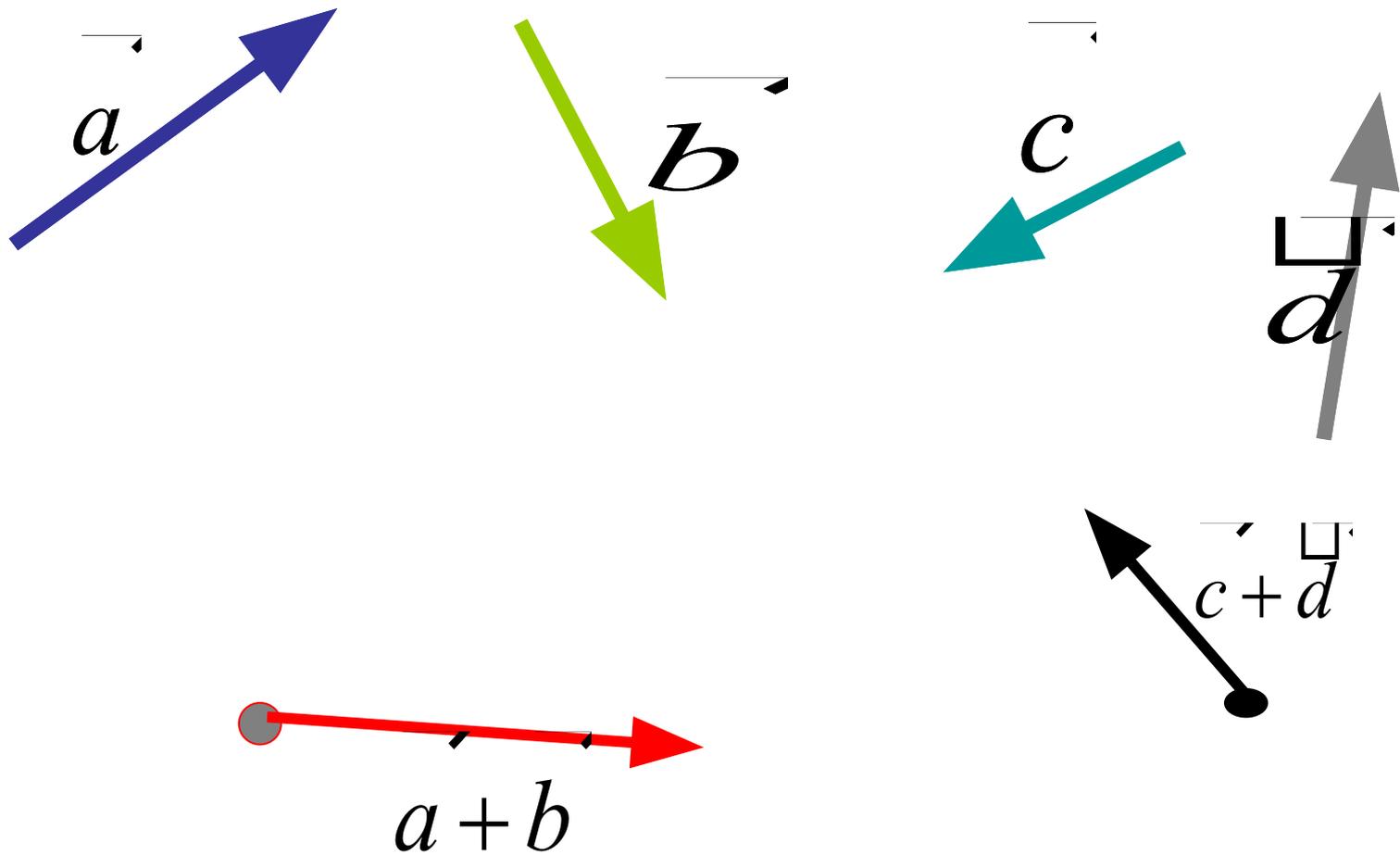


Равны ли векторы?

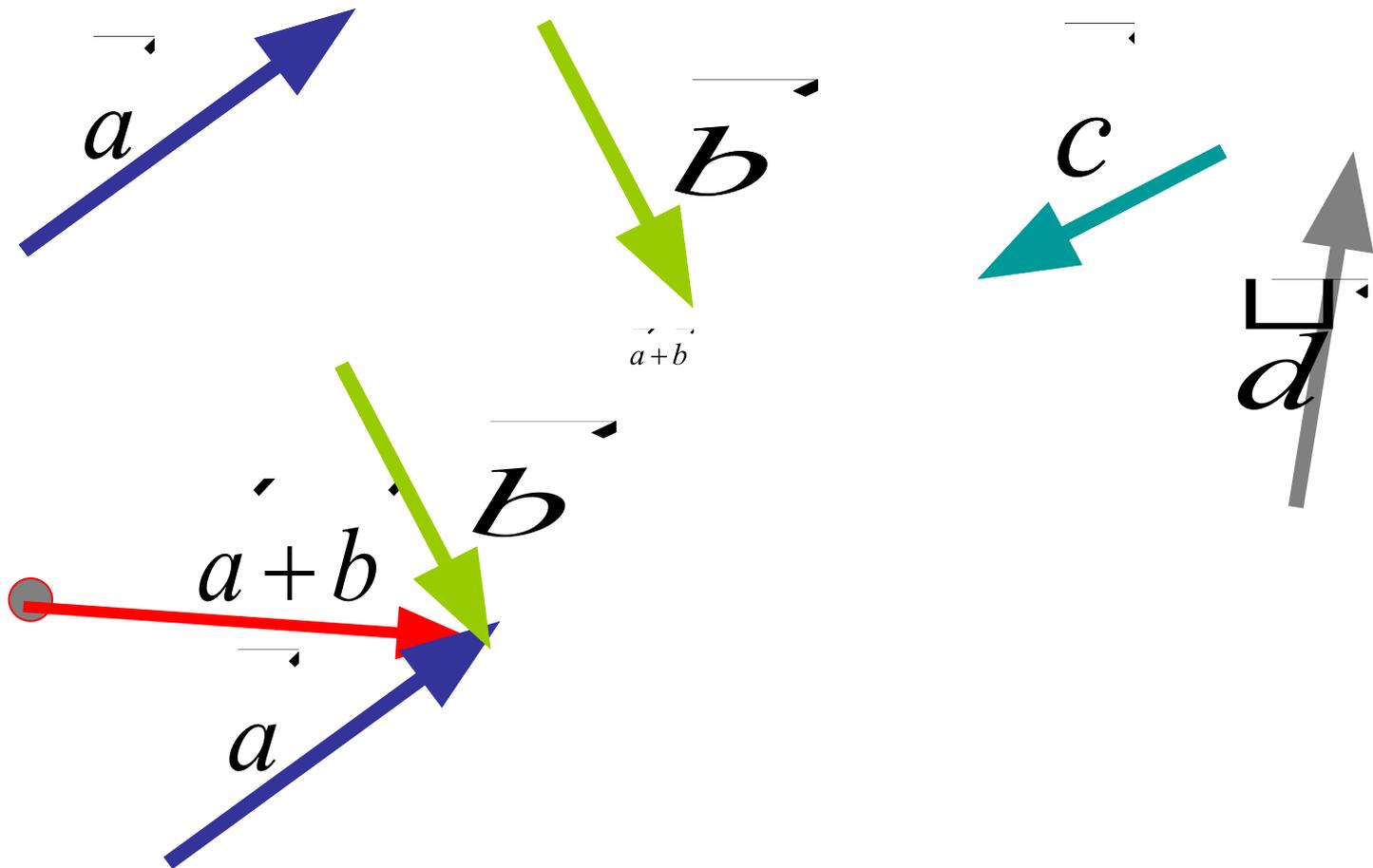


		—
AB и	BC	
		—
BC и	DA	
		+
BC и	AD	
		—
AO и	OB	
		+
BO и	OD	

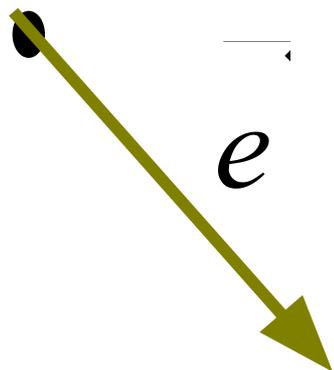
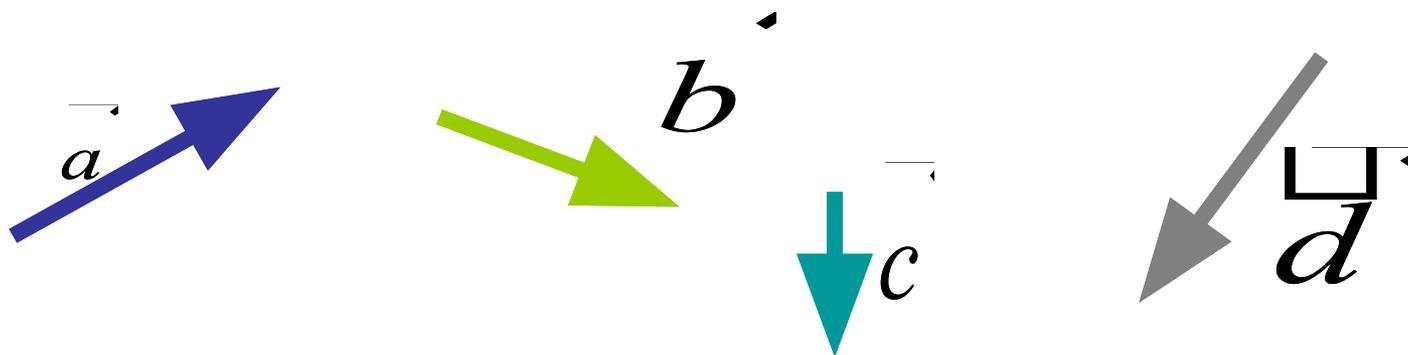
Сложение векторов. Правило треугольника



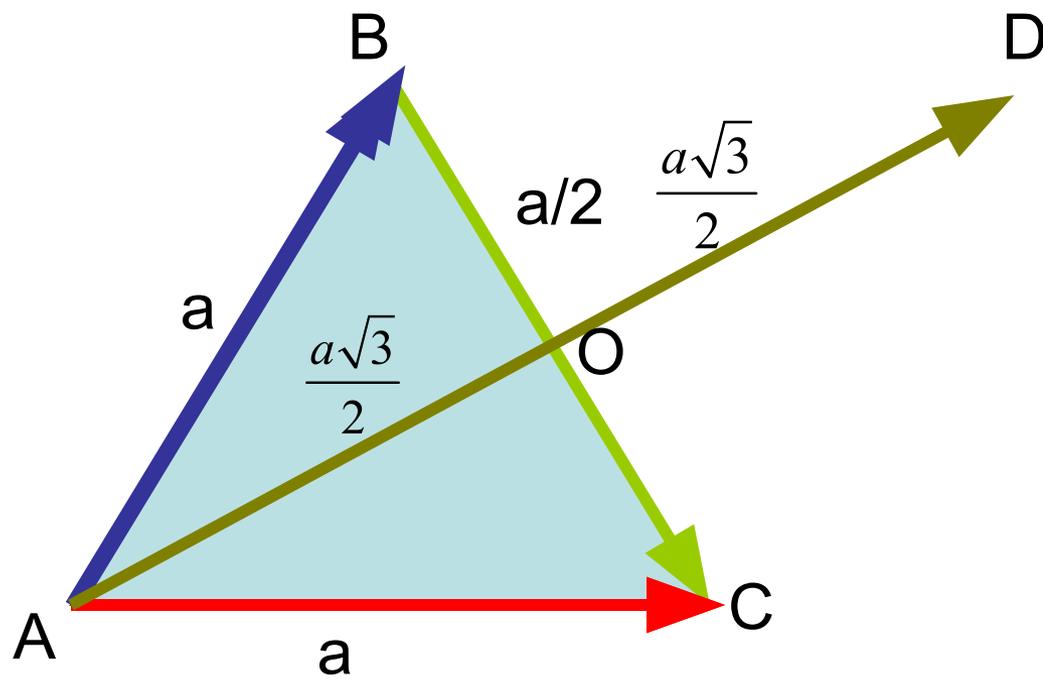
Сложение векторов. Правило параллелограмма



Сложение векторов. Правило многоугольника



$$\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{e}$$



$AB=BC=AC=a$

$$\left| \begin{array}{c} \overrightarrow{AB} + \overrightarrow{BC} \\ \overrightarrow{AB} + \overrightarrow{CB} \end{array} \right| =$$