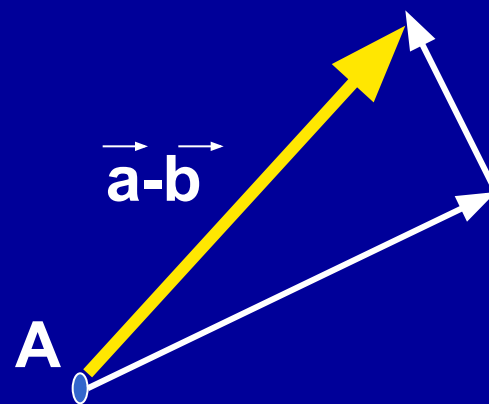
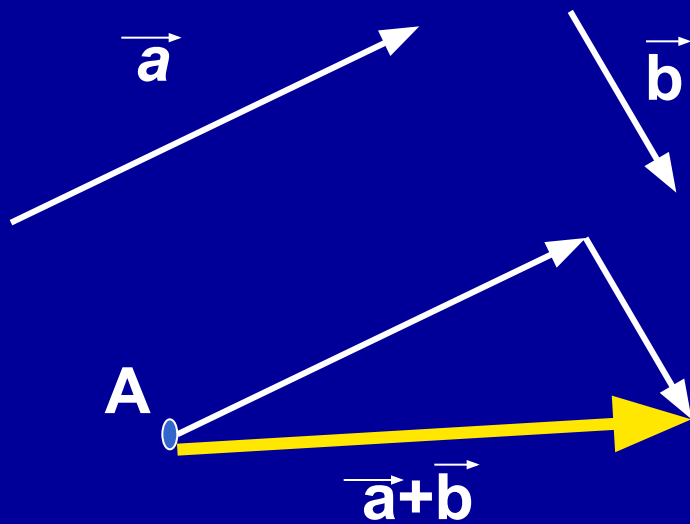
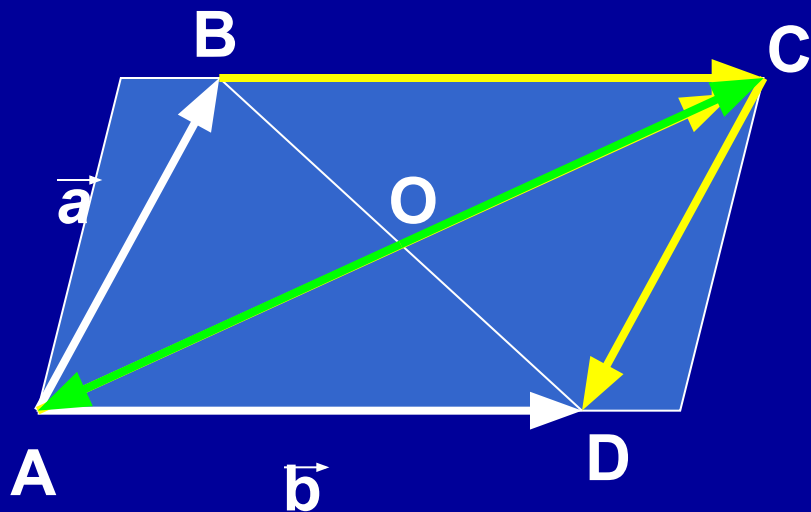


Сложение и вычитание векторов





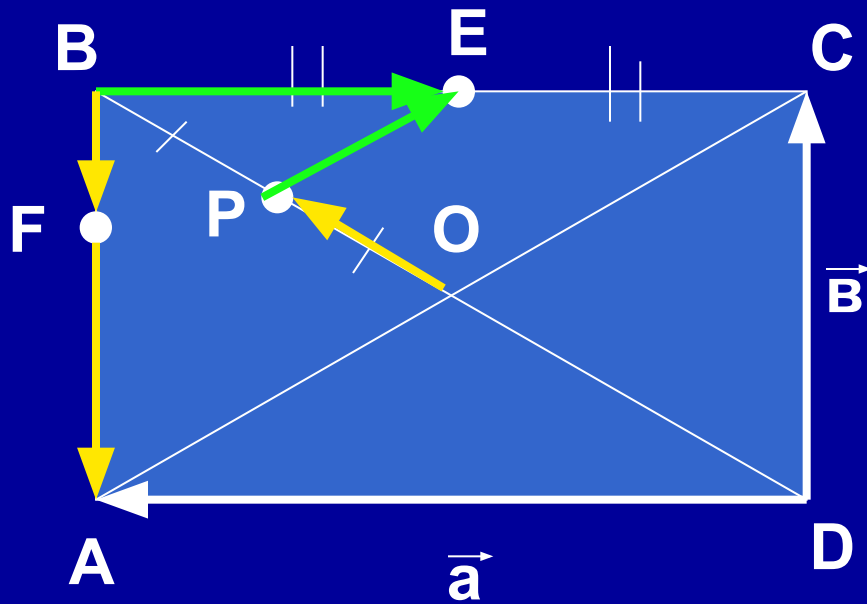
ABCD - параллелограмм

$$\vec{BC} = \vec{b} \quad \vec{CD} = -\vec{a}$$

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

$$\vec{OC} = \frac{1}{2}(\vec{a} + \vec{b})$$

$$\vec{OA} = -\frac{1}{2}(\vec{a} + \vec{b})$$



$$\frac{\vec{AF}}{\vec{FB}} = \frac{3}{2}$$

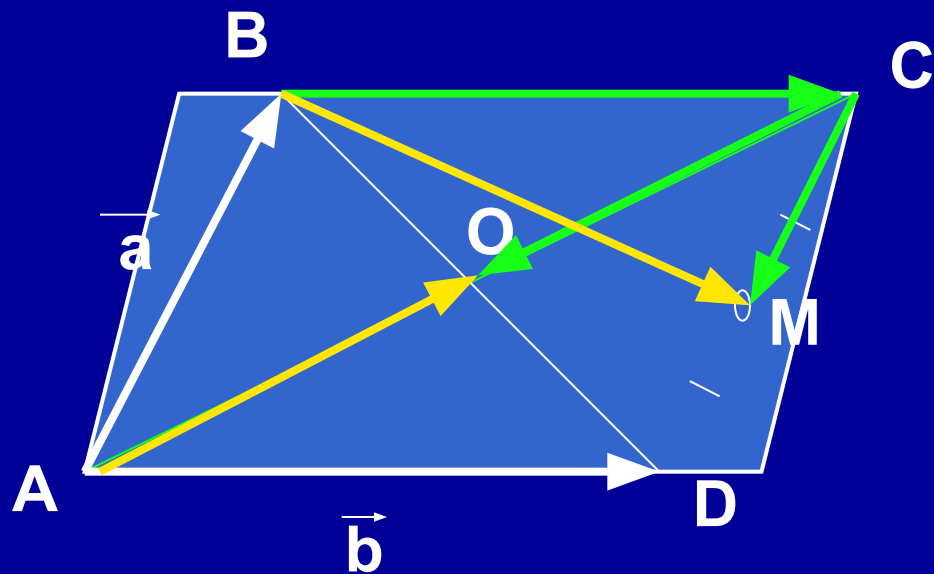
$$\vec{BE} = -\frac{1}{2}\vec{a}$$

$$\vec{BF} = -\frac{2}{5}\vec{B}$$

$$\vec{OP} = \frac{1}{4}(\vec{a} + \vec{B})$$

$$\vec{PE} = \frac{1}{4}(\vec{a} - \vec{B})$$

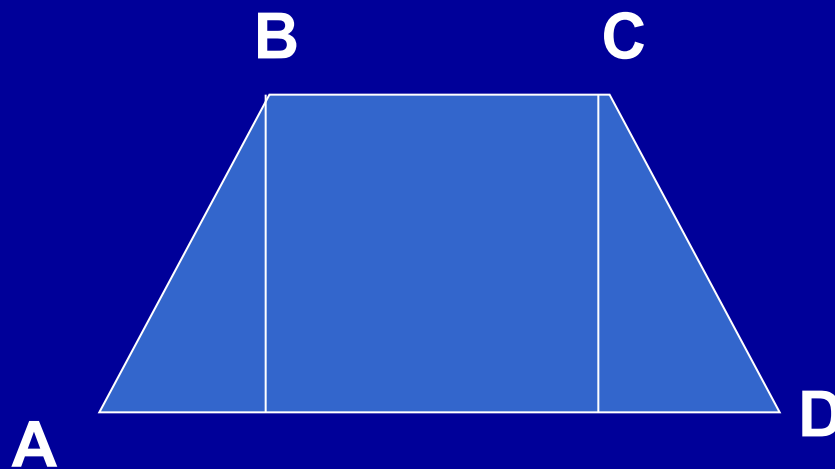
$$\vec{FA} = -\frac{3}{5}\vec{B}$$



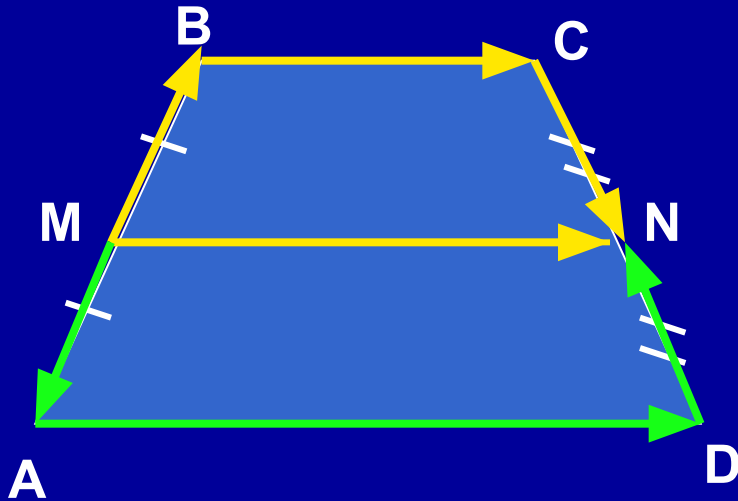
$$\vec{AO} = \frac{1}{2}(\vec{a} + \vec{b})$$

$$\vec{CO} = -\frac{1}{2}(\vec{a} + \vec{b})$$

$$\vec{BM} = \vec{b} - \frac{1}{2}\vec{a}$$



Средняя линия трапеции



$$MN \parallel AD$$

$$MN = (AD + BC) : 2$$

$$\vec{MN} = \vec{MB} + \vec{BC} + \vec{CN}$$

$$\vec{MN} = \vec{MA} + \vec{AD} + \vec{DN}$$

$$2\vec{MN} = (\vec{MB} + \vec{MA}) + (\vec{BC} + \vec{AD}) + (\vec{CN} + \vec{DN})$$

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0

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