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$$\Delta \quad S_{\Delta BOC} \overrightarrow{OA} + S_{\Delta AOC} \overrightarrow{OB} + S_{\Delta AOB} \overrightarrow{OC} = \vec{0}$$

$$\Delta \quad x \overrightarrow{OA} + y \overrightarrow{OB} + z \overrightarrow{OC} = \vec{0}$$

$$S_{\Delta BOC} \quad S_{\Delta AOC} \quad S_{\Delta AOB} = x \quad y \quad z$$

$$\Delta \quad \overrightarrow{OA} + \overrightarrow{OB} + \overrightarrow{OC} = \vec{0} \quad S_{\Delta AOC} = \quad S_{\Delta ABC} =$$

$\Delta$

$$\Delta \quad \overrightarrow{OA} + \overrightarrow{OB} + \overrightarrow{OC} = \vec{0}$$

$$\Delta \quad a \overrightarrow{OA} + b \overrightarrow{OB} + c \overrightarrow{OC} = \vec{0}$$

$$\Delta \quad \overrightarrow{AOA} + \overrightarrow{BOB} + \overrightarrow{COC} = \vec{0}$$

$$\Delta \quad \overrightarrow{OA} + \overrightarrow{OB} + \overrightarrow{OC} = \vec{0}$$

$\Delta$

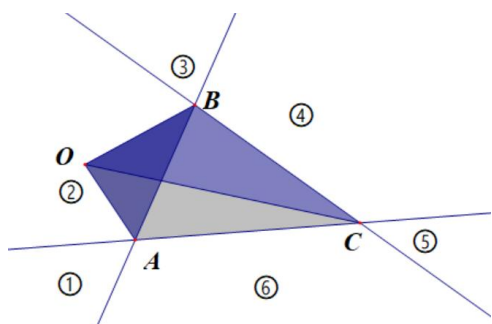
ABC

G

O

O

O



$$\Delta \quad S_{\Delta BOC} \overrightarrow{OA} + S_{\Delta AOC} \overrightarrow{OB} - S_{\Delta AOB} \overrightarrow{OC} = \vec{0}$$

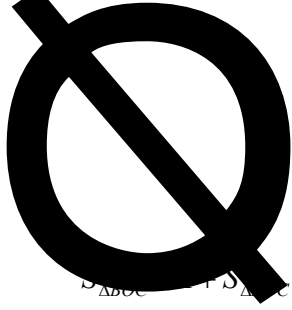
$\Delta$

$\Delta$

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O



$$S_{\Delta BOC} \vec{OB} + S_{\Delta AOC} \vec{OC} = \vec{0}$$

$\Delta$

$$S_{\Delta BOC} \vec{OA} + S_{\Delta AOC} \vec{OB} + S_{\Delta AOB} \vec{OC} = \vec{0}$$

$$V_{O-BCD} \vec{OA} + V_{O-ACD} \vec{OB} + V_{O-ABD} \vec{OC} + V_{O-ABC} \vec{OD} = \vec{0}$$

$$a \vec{OA} + b \vec{OB} + c \vec{OC} = \vec{0} \quad \text{with } a+b+c=0$$

$\Delta$

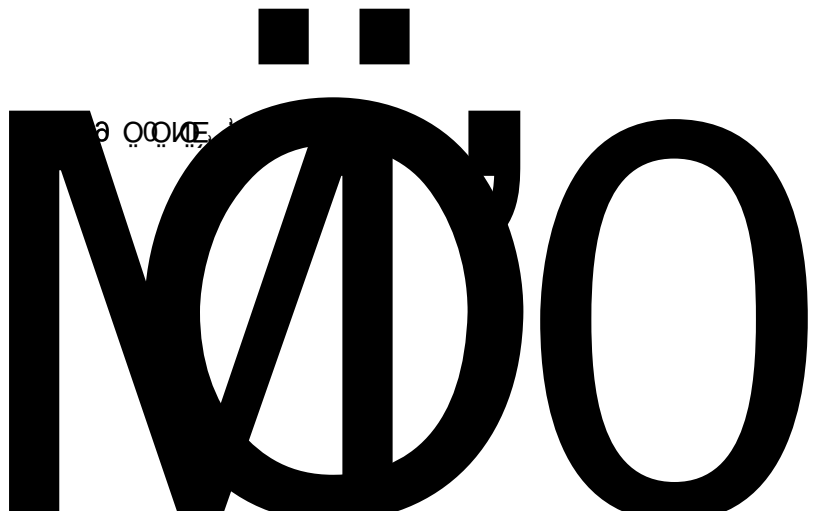
$a \ b \ c$

$\forall E \in$

$\rightarrow U$

$\Delta$

$\sum_{i=1}^n x_i = 0$



$$\Delta \quad \vec{OA} +$$

$$\vec{AO} = -\vec{AB} + -\vec{AC}$$

$$\Delta \quad \vec{AO} = -\vec{AB}$$

$$\Delta$$

$$\vec{OC} = -\vec{OA} + -\vec{OB}$$

$$y = -x + \quad x + y = r$$

$$C \quad \vec{\quad} - \vec{\quad} - \vec{OB}$$

$\sqrt{\quad}$

