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

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

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

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

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

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

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

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

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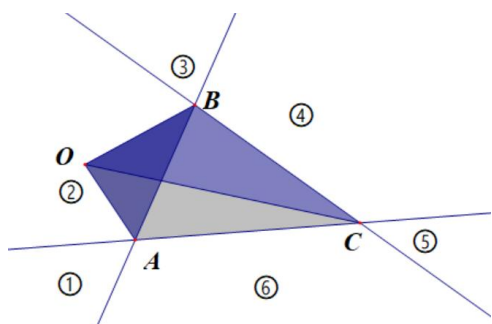
ABC

G

O

O

O



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

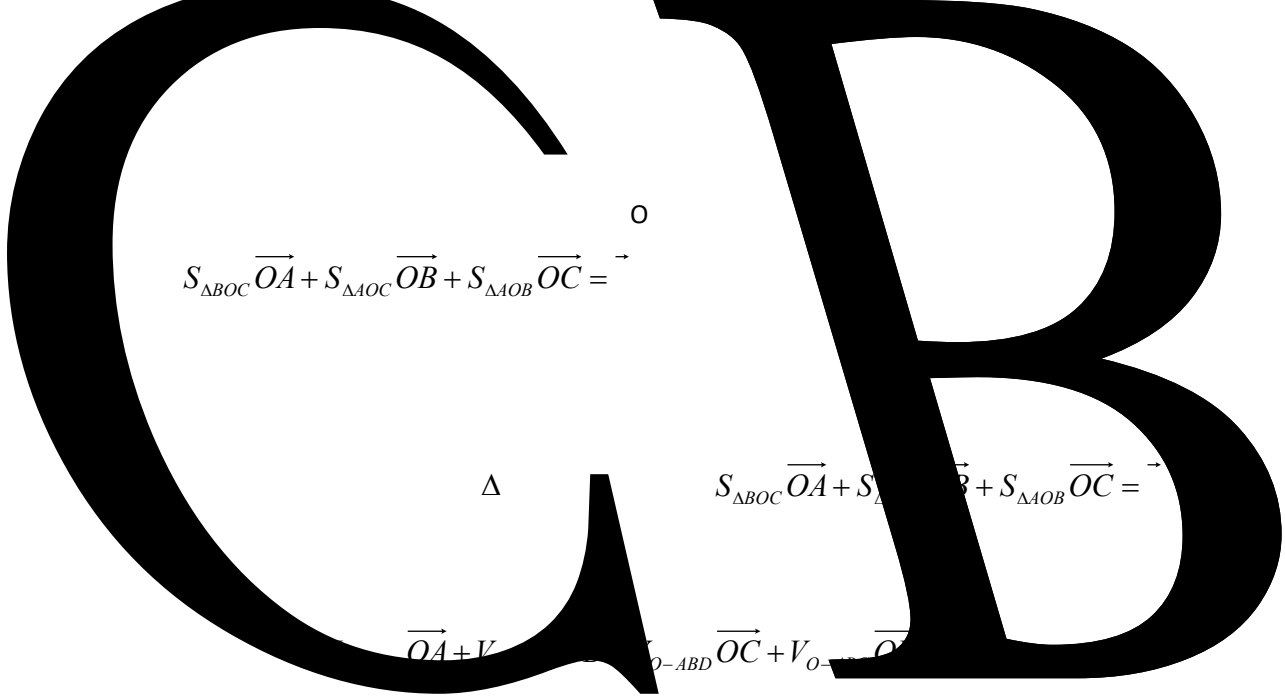
Δ

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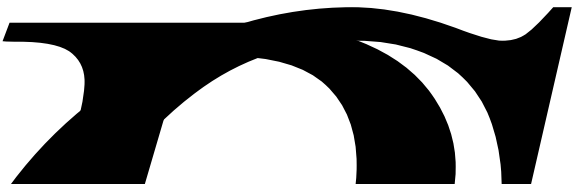
Δ

O



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

$$\Delta \quad a \quad b \quad c$$



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

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

$$\Delta \quad \vec{AO} = -\vec{AB} + \vec{AC} \quad \angle BAC \quad \sqrt{\quad}$$

$$\Delta \quad \vec{AO} + \vec{BO} + \vec{CO} = \vec{0}$$

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

$$y = -x + r \quad x + y = r \quad (r > 0) \quad A \quad B \quad O$$

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