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

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

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

$$\vec{OA} \quad 2\vec{OB} \quad \vec{OC} \quad \vec{0} \quad S_{AOC} \quad 10 \quad S_{AOB}$$

" "

$$\vec{OA} \quad \vec{OB} \quad \vec{OC} \quad \vec{0}$$

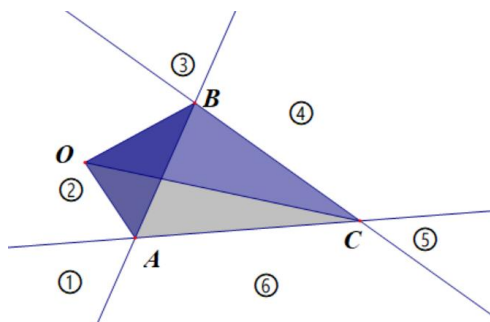
$$a\vec{OA} \quad b\vec{OB} \quad c\vec{OC} \quad \vec{0}$$

$$2A\vec{OA} \quad 2B\vec{OB} \quad 2C\vec{OC} \quad \vec{0}$$

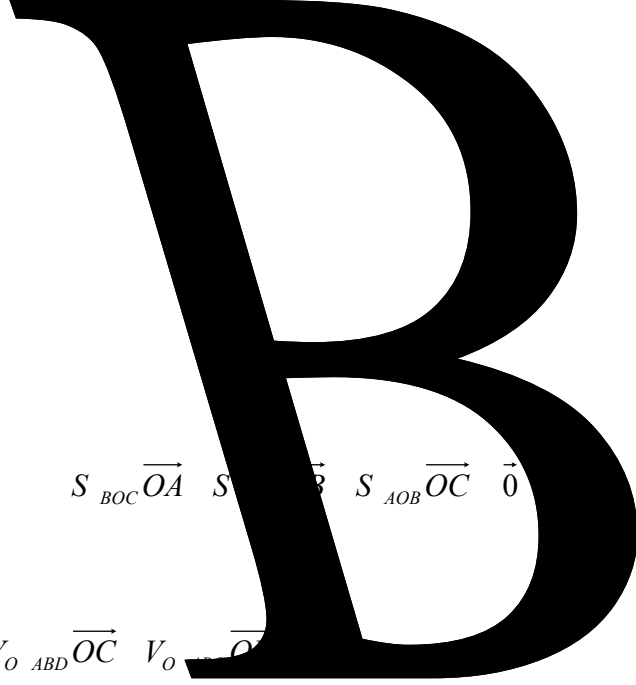
$$\vec{OA} \quad \vec{BOB} \quad \vec{COC} \quad \vec{0}$$

"

"



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



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

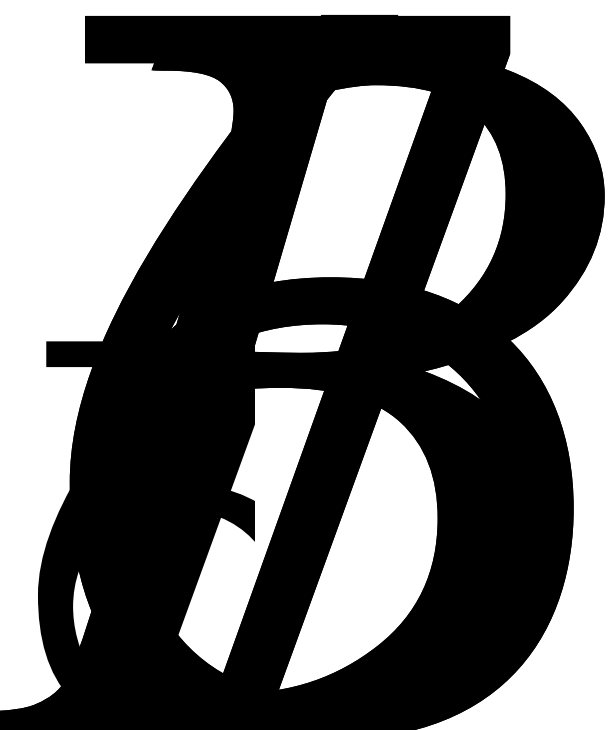
$$S_{BOC} \vec{OA} + S_{AOC} \vec{OB} + S_{AOB} \vec{OC} = \vec{0}$$

$$V_{OBCD} \vec{OA} + V_{OACD} \vec{OB} + V_{OABD} \vec{OC} + V_{OACB} \vec{OD} = \vec{0}$$

$$a + b + c$$

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

$$a^* + b + c$$



$$\begin{aligned}
 & \text{" } \vec{OA} + \vec{OB} + \vec{OC} = \vec{0} \text{ " } \\
 & \text{" } \vec{AO} = \frac{1}{2}\vec{AB} + \frac{1}{2}\vec{AC} \text{ " }
 \end{aligned}$$

$$\vec{AO} = \frac{1}{2}\vec{AB} + \frac{1}{2}\vec{AC} \quad \text{BAC} \quad \sqrt{\quad}$$

$$\begin{aligned}
 & \text{" } 2\vec{AO} = \vec{AB} + \vec{AC} \text{ " } \\
 & \text{" } \vec{OC} = -\vec{OA} - \vec{OB} \text{ " }
 \end{aligned}$$

$$\begin{aligned}
 & x^2 + y^2 = r^2 \quad r = 0 \quad A, B \quad O \\
 & C \quad \vec{OC} = -\vec{OA} - \vec{OB}
 \end{aligned}$$