3.6 1)

$$\overrightarrow{OB}=\frac{1}{2}\overrightarrow{\Delta B}=\frac{\overrightarrow{\Delta A}+\overrightarrow{AB}}{2}\overset{\substack{\overrightarrow{\Delta A}=-\vec{\beta}\\ \overrightarrow{AB}=\vec{\alpha}}}{=}\frac{-\vec{\beta}+\vec{\alpha}}{2}$$

3.6 2)

$$\overrightarrow{AO}=\frac{1}{2}\overrightarrow{A\Gamma}=\frac{\overrightarrow{AB}+\overrightarrow{B\Gamma}}{2}\overset{\substack{\overrightarrow{AB}=\vec{\alpha}\\ \overrightarrow{B\Gamma}=\overrightarrow{A\Delta}=\vec{\beta}}}{=}\frac{\vec{\alpha}+\vec{\beta}}{2}$$

3.6 3)

$$\overrightarrow{O\Delta}=\frac{1}{2}\overrightarrow{B\Delta}=\frac{\overrightarrow{BA}+\overrightarrow{A\Delta}}{2}\overset{\substack{\overrightarrow{BA}=-\vec{\alpha}\\ \overrightarrow{A\Delta}=\vec{\beta}}}{=}\frac{-\vec{\alpha}+\vec{\beta}}{2}$$

3.6 4)

$$\overrightarrow{\Gamma O}=\frac{1}{2}\overrightarrow{\Gamma A}=\frac{\overrightarrow{\Gamma B}+\overrightarrow{BA}}{2}\overset{\substack{\overrightarrow{\Gamma B}=\overrightarrow{\Delta A}=-\vec{\beta}\\ \overrightarrow{BA}=-\vec{\alpha}}}{=}\frac{-\vec{\beta}-\vec{\alpha}}{2}$$