

Έχουμε

$$\left. \begin{aligned} \overrightarrow{EZ} &= \overrightarrow{EA} + \overrightarrow{A\Delta} + \overrightarrow{\Delta Z} \\ \overrightarrow{EZ} &= \overrightarrow{EB} + \overrightarrow{B\Gamma} + \overrightarrow{\Gamma Z} \end{aligned} \right\} \begin{array}{l} \text{προσθέτουμε κατά μέλη} \\ \Rightarrow \end{array}$$

$$\Rightarrow 2\overrightarrow{EZ} = \overrightarrow{EA} + \overrightarrow{EB} + \overrightarrow{A\Delta} + \overrightarrow{B\Gamma} + \overrightarrow{\Delta Z} + \overrightarrow{\Gamma Z} \Rightarrow$$

$$\begin{array}{l} \overrightarrow{EA} + \overrightarrow{EB} = \vec{0} \\ \overrightarrow{\Delta Z} + \overrightarrow{\Gamma Z} = \vec{0} \end{array} \Rightarrow 2\overrightarrow{EZ} = \overrightarrow{A\Delta} + \overrightarrow{B\Gamma} \Rightarrow \overrightarrow{EZ} = \frac{\overrightarrow{A\Delta} + \overrightarrow{B\Gamma}}{2}$$

