

$$\forall (x, y, z) \in E^3, \forall (\lambda, \mu) \in \mathbb{K}^2, \quad \langle \lambda x + \mu y ; z \rangle = \lambda \langle x ; z \rangle + \mu \langle y ; z \rangle \quad (\text{A.2a})$$

$$\langle x ; \lambda y + \mu z \rangle = \lambda \langle x ; y \rangle + \mu \langle x ; z \rangle$$

$$\forall (x, y) \in E^2, \quad \langle x ; y \rangle = \langle y ; x \rangle \quad (\text{A.2b})$$

$$\forall x \in E, \quad \langle x ; x \rangle \geqslant 0_{\mathbb{K}} \quad (\text{A.2c})$$

$$\forall x \in E, \quad \langle x ; x \rangle = 0_{\mathbb{K}} \Rightarrow x = 0_E \quad (\text{A.2d})$$