$$\forall x \in V, \qquad \|x\| = 0_{\mathbb{K}} \Rightarrow x = 0_V \tag{A.1a}$$

$$\forall x \in V, \forall \lambda \in \mathbb{K}, \qquad \|\lambda x\| = |\lambda| \, \|x\| \tag{A.1b}$$

$$\forall (x, y) \in V^2, \qquad \|x + y\| \leqslant \|x\| + \|y\| \tag{A.1c}$$