

$$d_{\mathcal{A}}(x, y) = d_{\mathcal{A}}(y, x) = |x - y| \quad \text{for } x, y \in \mathcal{A} \quad \text{and} \quad d_{\mathcal{A}}(x, y) = 0 \quad \text{for } x, y \in \mathcal{A}^c.$$