## 9.15   Circle                                                                [2CF]

**Definition 9.153.** *[0Y3]*

It is a closed set in $\mathbb{R}^2$, so we can think of it as a complete metric space with the Euclidean distance $d(x, y) = |x - y|_{\mathbb{R}^2}$.

**Definition 9.154.** *[0Y4]*

As usual, given $t \in \mathbb{R}$, we indicate with $[t]$ the class of elements in $\mathbb{R}/2\pi$ equivalent to $t$.

**Exercises**

E9.155 [0Y5]

E9.156 [0Y7]

E9.157 [0Y9]

E9.158 [0YB]

E9.159 [0YD]

E9.160 [0YF]

[ [0YG] ]