

**Definition 9.155.** [0Y4] We denote by  $\mathbb{R}/2\pi$  the quotient space  $\mathbb{R}/\sim$  where  $x \sim y \iff (x - y)/(2\pi) \in \mathbb{Z}$  is an equivalence relation that makes points equivalent that are an integer multiple of  $2\pi$ . This space  $\mathbb{R}/2\pi$  is called the space of real numbers modulo  $2\pi$ .