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## 1 Riemann surfaces

### 1.1 Simply connected Riemann surfaces

#### 1.1.1 The Riemann sphere (elliptic)

#### 1.1.2 The complex plane (parabolic)

#### 1.1.3 The opendisk (hyperbolic)

### 1.2 Other Riemann surfaces

#### 1.2.1 The torus

#### 1.2.2 The hyperelliptic curve