

## 2 ガウス平面 Gaussian Plane

### 2.1

Find the radius and the argument for each of the following values, and locate those on Gaussian plane.

$$(a) 1 + i\sqrt{3}, \quad (b) \sqrt{3} + i, \quad (c) \overline{1 + i},$$

### 2.2

Consider a complex number  $z = (i/\sqrt{2})^n$  provided  $n = 1, 2, 3,$  and  $4$ . Locate  $z$  in Gaussian plane.

### 2.3 p.18

Display the domain on Gaussian plane in which the complex number  $z$  satisfies the following nequality;

$$\left| \frac{z-1}{z+1} \right|^2 > 2.$$