1. Gamelin page 87 exercise 3.

2. Gamelin page 89 exercises 2, 4. (Note that in the book’s notation, $D$ is a connected open set.)


5. Gamelin page 129 exercise 8.

6. *Extra credit:* Let $p(z)$ be a nonconstant polynomial and let $c$ be a positive constant. Show that each component of the set $\{z \in \mathbb{C} \mid |p(z)| < c\}$ contains a zero of $p$. 