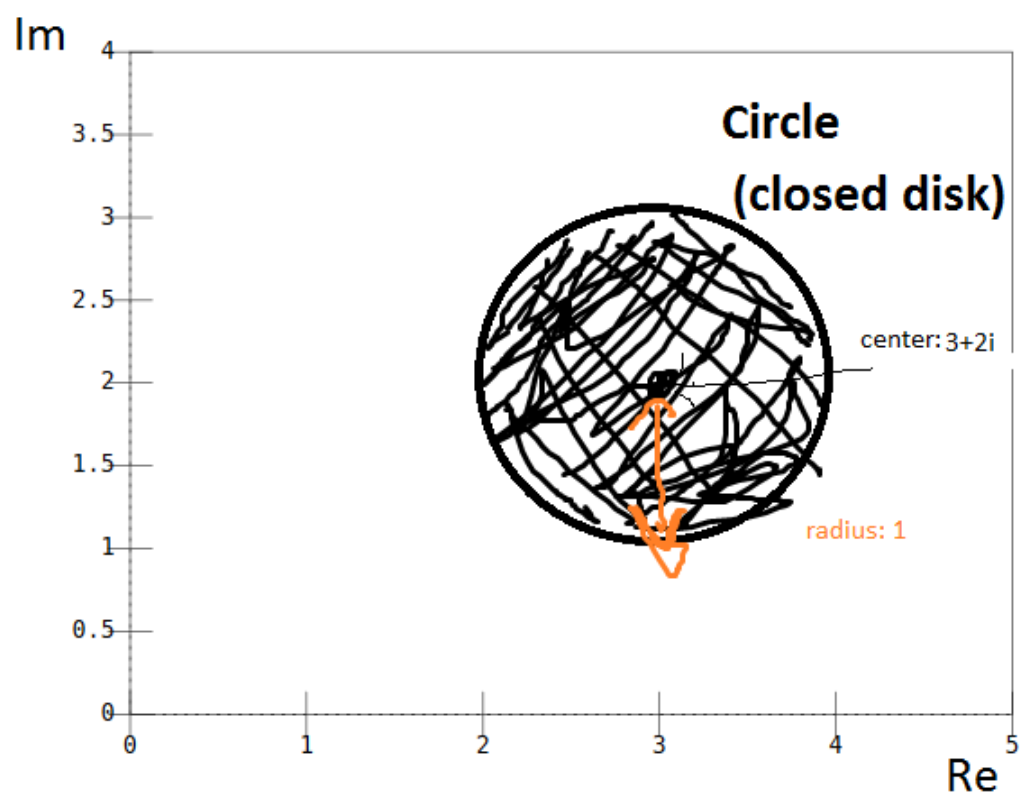


Hw. 1 Problem 1

December 17, 2017

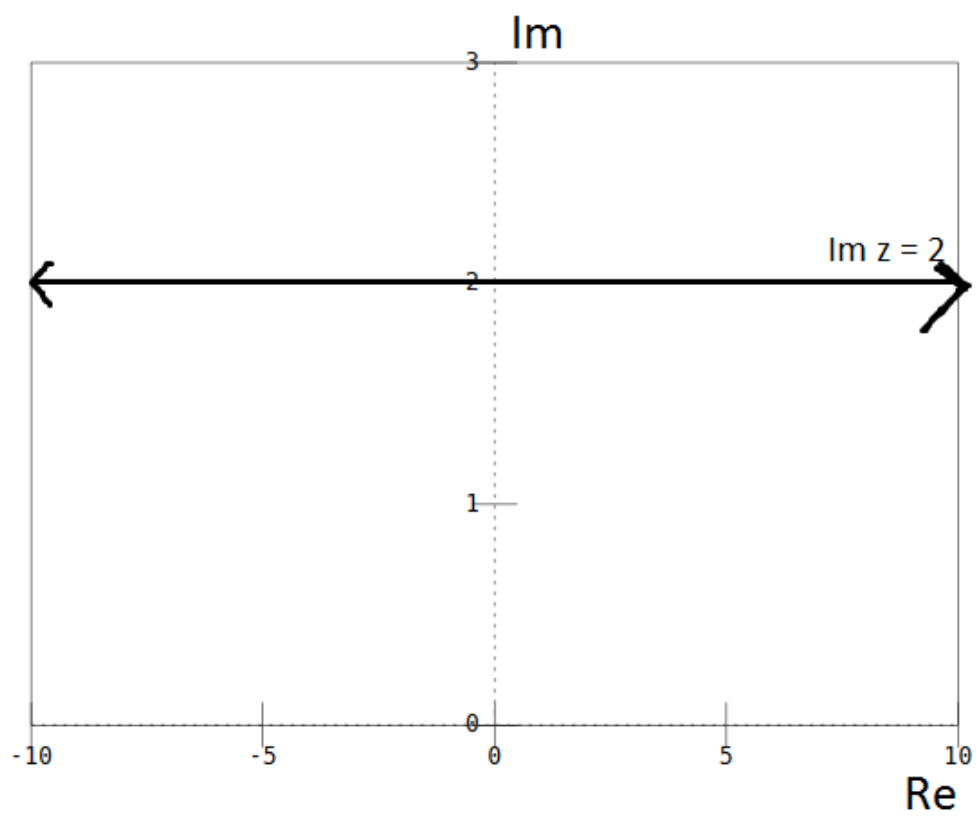
Part a):

$$\{z \in \mathbb{C} : |z - 3 - 2i| \leq 1\}$$



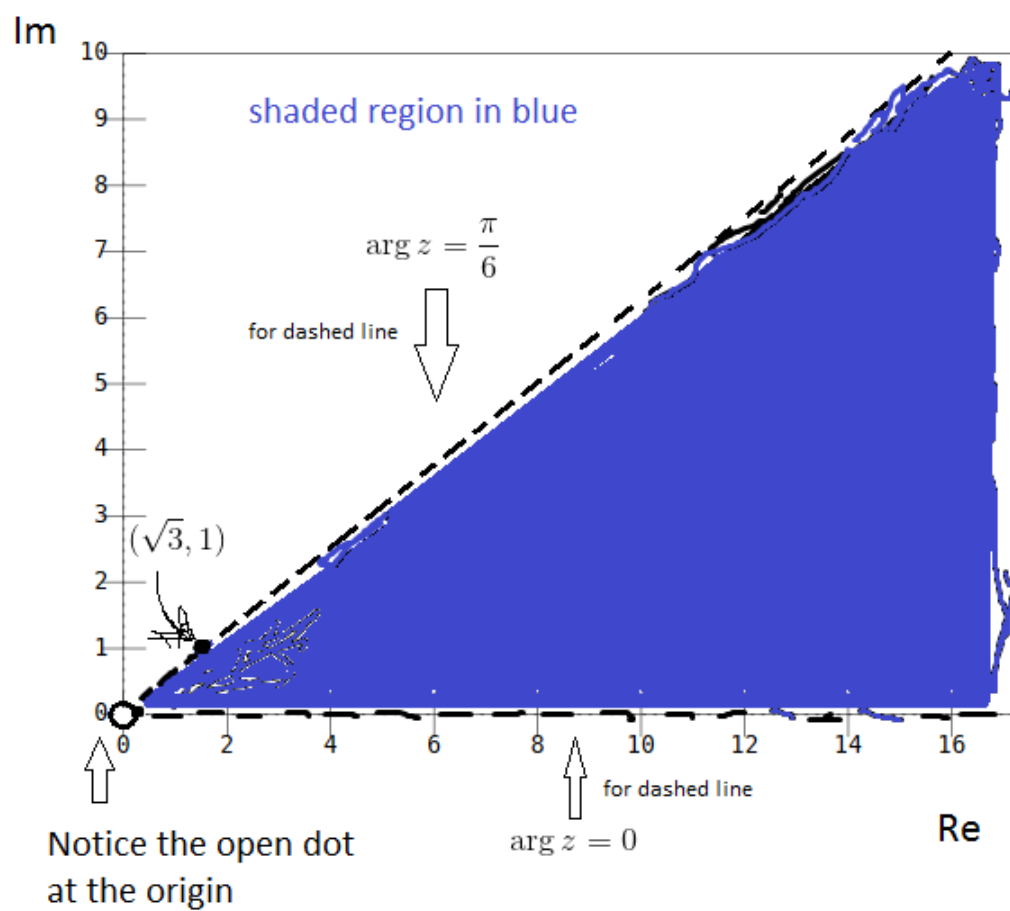
Part b):

$$\{z \in \mathbb{C} : \operatorname{Im} z = 2\}$$



Part c):

$$\{z \in \mathbb{C} - \{0\} : 0 < \arg z < \frac{\pi}{6}\}$$



Part d):

$$\{z \in \mathbb{C} : |z - 1| < |z|\}$$

