



BRAC University

Department of Mathematics and Natural Sciences

Total Points: 15


 **Assignment-01**

Course Code: MAT215

Complex

 **Name: @Name@**


 **Student ID: @ID@**

 **Section: @Section@**

 **Semester: FALL 2025**

 **Submission Date: _____**

Assigned by


 **Partho Sutra Dhor**
Lecturer, Department of MNS
BRAC University

Question 1

Find all possible values of z such that

$$z^n = 1$$

Locate them in the complex plane. Show that they are contained in a circle and find the radius of that circle. Also find the angular distance between two adjacent roots.


 **Solution:**

Question 2

Consider the equation

$$@graph_{equation}@$$

Describe the above locus in the complex plane

 Solution: