

Homework 2, MATH 300 2021-22 Term 2

The numbered questions are from the textbook:

E.B. Saff, A.D. Snider, *Fundamentals of Complex Analysis with Applications to Engineering, Science and Mathematics*, third edition.

We will randomly choose 3-4 questions to mark each time.

1. 1.4.12(a)
2. 1.5.4; 1.5.10; 1.5.16
3. 1.6.6; 1.6.8; 1.6.12; 1.6.16
4. Using a geometric argument, find a value of θ in the interval $0 \leq \theta \leq 2\pi$ that satisfies $|e^{i\theta} - 1| = 2$.