

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF UTAH  
**Applied Complex Variables and Asymptotic Methods**  
**MATH 6720 – Section 001 – Spring 2023**

**Homework 1**  
**Analytic functions, I**

**Due: Friday, Feb 3, 2023**

---

Below, problem C in section A.B is referred to as exercise A.B.C.

Text: *Complex Variables: Introduction and Applications*, Ablowitz & Fokas,

Exercises: 2.1.1  
              2.1.5  
              2.2.1  
              2.2.2  
              2.2.3

Submit your homework assignment on Canvas via Gradescope.