

Copying answers and steps is strictly forbidden. Same instructions as Mission 1. Do not fold. Thanks!

Problem 71 Your signature below indicates you have:

(a.) I have read §6.1 – 6.4, 7.1 – 7.4, 8.1, 8.2, 9.1 – 9.3 of Gamelin: _____.

(b.) I have read Cook's Guide to Chapter 7 and 8: _____.

Problem 72 §VII.1 # 1b, 1d, 1e, 1g (page 198) (residue)

Problem 73 §VII.1 # 3c, 3e, 3f (page 198) (residue)

Problem 74 §VII.2 # 6 (page 202) (improper integral via contour technique)

Problem 75 §VII.3 # 1 (page 205) (trigonometric integral via residues)

Problem 76 §VII.4 # 3 (page 208) (keyhole contour)

Problem 77 §VIII.1 # 4 (page 228) (argument principle zero-counting)

Problem 78 §VIII.2 # 3 (page 230) (Rouché's Theorem)

Problem 79 §IX.2 # 5 (page 265) (conformal self-map of upper half-plane)

Problem 80 §IX.3 # 4 (page 271) (isometry and unitarity)