

NO NOTES, BOOKS, ELECTRONIC DEVICES, OR INTERPERSONAL COMMUNICATION ALLOWED. Submit each solution on a separate sheet of paper.

Problem

LO1. Complete the following problems.

- (a) Show all the steps needed to compute $\binom{15}{43}$.
- (b) For the Strassen-Solovay primality test verify that $a = 2$ is an accomplice when $n = 13$, but is a witness when $n = 15$.