

## **Number Theory – AMC-10/12 Preparation OMC 10/14/2025**

1. Divisibility
2. Prime Numbers
3. Prime Factorization
4. GCD
5. LCM
6. # of Divisors of an int, and observations
7. Sum of Divisors of an int
8. Prime Factorization of  $n!$
9. mod
10. Modular Exponentiation Cycle

Sample Problems