

Math 314 - Fall 2024

Practice problems 3 (Exponents)

Quiz: October 22 2023

It used to be expensive to make things public and cheap to make them private. Now it's expensive to make things private and cheap to make them public.

— Clay Shirky

Practice:

- (1) Compute $3^9 \pmod{11}$ without using a calculator.
- (2) Find $5^{34} \pmod{17}$ without using a calculator.
- (3) Find the decryption function $D(y)$ corresponding to the encryption function

$$E(x) \equiv x^9 \pmod{29}.$$