Math 314 - Spring 2024 Practice problems 3 (Exponents)

Quiz: April 8th 2024

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

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