## Math 314 - Fall 2023

Practice problems 3 (Exponents)
Quiz: October 262023
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 $3^{9}(\bmod 11)$ without using a calculator.
(2) Find $5^{34}(\bmod 17)$ without using a calculator.
(3) Find the decryption function $D(y)$ corresponding to the encryption function

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

