Math 314 - Spring 2024
Practice problems 2 (Euclid's Algorithm)   Quiz: February 28 2024

Few false ideas have more firmly gripped the minds of so many intelligent men than the one that, if they just tried, they could invent a cipher that no one could break.

— David Kahn

Practice:

(1) Compute $\gcd(58, 27)$ using Euclid's algorithm.
(2) Find x and y so that $28x + 89y = 1$.
(3) Find the inverse of 17 modulo 45.

Reading: Sections 2.1-2.3, 3.1, 3.2, 6.3