Math 314 - Fall 2023
Practice problems 2 (Euclid's Algorithm)
Quiz: Sept 262023
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 $\operatorname{gcd}(58,27)$ using Euclid's algorithm.
(2) Find $x$ and $y$ so that $28 x+89 y=1$.
(3) Find the inverse of 17 modulo 45.

