Fall 2023, Math 320: Preliminary Problem Set 1 Due: Thursday, August 31st, 2023
The Division Algorithm and Greatest Common Divisors

Preliminary problems. These problems should be completed before discussion on Thursday.
(P1) Write a complete mathematical definition of $\operatorname{gcd}(a, b)$.
(P2) Find $q, r \in \mathbb{Z}$ so that

$$
105=11 q+r
$$

with $0 \leq r<11$, as in the division algorithm.

