- 1. Prove that if a is a positive integer then gcd(a, 0) = a.
- 2. Suppose d is a common divisor to a and b. Prove that d|(ma + nb) for all $m, n \in \mathbb{Z}$.
- 3. Suppose a and b are positive integers with d = gcd(a, b), prove gcd(a/d, b/d) = 1.