

作業二 繳交日期 109/03/27(五) 13:10

1. (a) Find integers s and t such that $13s + 1251t = 1$ (b) Find $13^{-1} \pmod{1251}$
2. We have proved in class that if $\gcd(a, b) = d$, there exist integers x, y such that $d = a \cdot x + b \cdot y$, show that $\gcd(x, y) = 1$
3. Solve x 's that satisfy the following system of congruence equations:
$$\begin{cases} 13x \equiv 4 \pmod{93} \\ 15x \equiv 25 \pmod{50} \end{cases}$$