

Homework

due on Wednesday, August 29

Problem 1. Prove that $a \equiv b \pmod{c}$ if and only if a and b give the same remainders upon division by c .

Problem 2. a) Find the remainder upon division of 2^{85} by 341.

b) Find smallest $a > 0$ such that $2^a \equiv 1 \pmod{341}$.

Read carefully sections 1.1 to 1.4 from Lauritzen's book.