

MATH 2610
Discrete Mathematics for Computer Science
Thursday March, 3 2005

I will collect the homework from this week Wednesday March 9, 2005.

(1) Find a solution to the following system of linear congruences.

$$x \equiv 2 \pmod{3}$$

$$x \equiv 2 \pmod{5}$$

$$x \equiv 2 \pmod{7}$$

(2) Find a solution to the following system of linear congruences.

$$x \equiv 2 \pmod{3}$$

$$x \equiv 3 \pmod{5}$$

$$x \equiv 6 \pmod{8}$$

$$x \equiv 1 \pmod{11}$$

(3) Find a solution to the following system of linear congruences.

$$2x \equiv 2 \pmod{3}$$

$$3x \equiv 2 \pmod{5}$$

$$4x \equiv 2 \pmod{7}$$