

Use the Chinese Remainder Theorem to solve the following systems

1.

$$x \equiv 6 \pmod{7}$$

$$x \equiv 4 \pmod{8}$$

$$x \equiv 10 \pmod{15}$$

2.

$$x \equiv 4 \pmod{11}$$

$$x \equiv 18 \pmod{21}$$

$$x \equiv 17 \pmod{32}$$

$$x \equiv 42 \pmod{61}$$