Math 4362 - Number Theory Practice Problems: Chinese Remainder Theorem

- 1. Solve each of the following sets of simultaneous congruences:
 - (a) $x \equiv 1 \pmod{3}, x \equiv 2 \pmod{5}, x \equiv 3 \pmod{7}$
 - **(b)** $x \equiv 5 \pmod{11}, x \equiv 14 \pmod{29}, x \equiv 15 \pmod{31}$
 - (c) $x \equiv 5 \pmod{6}, x \equiv 4 \pmod{11}, x \equiv 3 \pmod{17}$