Answer the following questions:

1. Solve the congruence $4x \equiv 5 \pmod 9$?

2. Use the Chinese Remainder Theorem to solve the system of congruences
$x \equiv 3 \bmod 16$
$x \equiv 7 \bmod 135$

3. Find $23^{1002} \bmod 41$?

4. Find the last digit of 7^{2013}?

5. The ISBN-10 of the sixth edition of Elementary Number Theory and Its Applications is 0-321-500Q1-8, where Q is a digit. Find the value of Q?