

Computer Science and Engineering Department, SVNIT, Surat
B.tech.-III, Semester-VI

Tutorial

1. Find the value of $\phi(29)$, $\phi(80)$, $\phi(100)$, $\phi(101)$.
2. Find the value of X for the following set of congruence using the Chinese remainder theorem.
 - a. $X \equiv 2 \pmod{7}$, and $X \equiv 3 \pmod{9}$
 - b. $X \equiv 4 \pmod{5}$, and $X \equiv 10 \pmod{11}$
3. Find the results of the following, using Fermat's little Theorem.
 - a. $5^{-1} \pmod{13}$
 - b. $15^{-1} \pmod{17}$