

CompSci 102 Discrete Mathematics for CS  
Spring 2005 Forbes In-class Questions 2

1. For an integer  $a$ , represented in two's complement notation, show

$$-a = \bar{a} + 1$$

2. Give the prime factorization of 111111.

3. What is  $\gcd(101,23)$

4. What is  $16^{20} \bmod 7$ ?