

Exercise Set Part 5

Public Key Cryptography

Hans Georg Schaathun

12th November 2015

Exercise 0.1 *Calculate*

1. $6^3 \pmod{11}$

Problem 0.1 *Show how to calculate the following powers: $5^{17} \pmod{9}$ How many multiplications do you need?*

Problem 0.2 *What does the encryption function for RSA look like?*

Problem 0.3 *Show how to calculate the following powers: $5^{17} \pmod{9}$ How many multiplications do you need?*