MATH 418/818, Number Theory and Cryptography, Winter 2022
Homework 2
**(Due: February 8 11:59 PM (Kingston time), upload on Crowdmark following
question numbers)**

Textbook problems.

(1) Exercise 1.44.
(2) Exercise 1.45.
(3) Exercise 1.46 (a),(b),(c).
(4) Exercise 2.3.
(5) Exercise 2.4.
(6) Exercise 2.7.
(7) Exercise 2.8.
(8) Exercise 2.11.

More congruences.

(9) Find the last two digits of the number 9^{9^9}.
(10) Find the last three digits of the number 7^{999}.