

Math 40520 Theory of Number

Homework 3

Due Wednesday, 9/21

Do 5.

1. Exercise 2.4 on page 45 in the textbook.
2. Exercise 2.9 on page 45 in the textbook.
3. Exercise 2.13 on page 46 in the textbook.
4. Exercise 2.14 on page 46 in the textbook.
5. Exercise 2.17 on page 46 in the textbook.
6. Exercise 2.23 on page 47 in the textbook.
7. Do there exist integers n such that $\varphi(n) = 14$?
8. For what integers n does $\varphi(n)$ divide n ?