MATH 113: DISCRETE STRUCTURES HOMEWORK DUE WEDNESDAY WEEK 12

Problem 1. Read §6.5 of *DM:EB*. Comment on the relative merits of the book's proof and the one we discovered in class.

Problem 2. Let *p* be prime and *a* be an integer $1 \le a \le p - 1$. Consider the product

$$a(2a)(3a)\cdots((p-1)a)$$

and use your result from Problem 2 of HW12M to deduce Fermat's little theorem.