## MATH 113: DISCRETE STRUCTURES HOMEWORK FOR FRIDAY WEEK 11

*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 HW11W to deduce Fermat's little theorem.