

## Math 345/645 - Weekly homework 7

The problems on this assignment should be written up impeccably and turned in on Tuesday, March 29. This assignment needs to be typed in  $\text{\LaTeX}$ . A problem with a \* is extra-credit for undergraduates and required for graduate students.

1. Let  $a_1 = 13$  and for  $n \geq 2$ , let  $a_n = 13^{a_{n-1}}$ . What is the smallest positive integer  $x$  so that  $a_{1834} \equiv x \pmod{100}$ ? Explain your reasoning. [ If you're clever, you can do this without needing a calculator. ]

2. Send me an encrypted message using RSA. Use

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 $29192160552039827878712479798314648833948842159572697256156263576938516231158790113452471$

and  $e = 65537$ . [ Use the website <http://magma.maths.usyd.edu.au/calc/>. There is a file posted on the diary with a script to copy and paste into this website that will compute  $M^e \bmod N$  for you. Choose a message that is less than 127 characters long to make sure  $M < N$ . Send me  $M^e \bmod N$  in an e-mail. ]

3. \* Let  $n > 1$  be a positive integer and  $\{x_1, x_2, \dots, x_{\phi(n)}\}$  be the integers that are greater than or equal to 1 and less than or equal to  $n$  that are relatively prime to  $n$ . Prove that

$$x_1 x_2 \cdots x_{\phi(n)} \equiv \begin{cases} -1 & \text{if } n = 4 \text{ or } n = p^k \text{ or } 2p^k \text{ where } p \text{ is an odd prime} \\ 1 & \text{otherwise} \end{cases} \pmod{n}.$$

(This is a generalization of Wilson's theorem.)

# Math 645 Homework 1jeremy West

**Didier Musso**



## **Math 645 Homework 1jeremy West:**

**Mathematical Reviews** ,1995      **Gute Ökonomie für harte Zeiten** Esther Duflo,Abhijit V. Banerjee,2020-01-28  
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