

4. Use Pepin's Test to show that the third Fermat number, $F_3 = 257$, is prime.
5. What lemma (due to Euler) allows us to speed up the search for prime factors of Fermat numbers by a factor of 128? State the lemma here.
6. Take a look at the following recent article. (The link is live in the pdf file.) What is the largest known prime number?
http://www.nytimes.com/2016/01/22/science/new-biggest-prime-number-mersenne-primes.html?_r=0
7. What struck you in this reading? What is still unclear? What remaining questions do you have?