Spring 2021, Math 522: Preliminary Problem Set 11
Due: Thursday, April 8th, 2021
Cyclotomic Polynomials

Preliminary problems. These should be submitted to Gradescope before Thursday discussion.

(P1) Use polynomial long division to determine whether x^2-x+1 is a factor of $x^4+x^3+x^2+x+1$.

(P2) Write down the first 6 cyclotomic polynomials, that is, $\Phi_1(x), \Phi_2(x), \ldots, \Phi_6(x)$.

(P3) Write down the "big theorem" from class (this will be useful both during discussion **and** when working on the homework).