

HW #2, due 1-17

Math 505A

1. (20 points) Carry out the computation of the 105th cyclotomic polynomial Φ_{105} far enough to show that it has coefficients other than ± 1 and 0. Note that 105 is the product of the three odd primes 3, 5, and 7..
2. Exercise 14.1.7, p. 567.
3. Exercise 14.1.8 (may assume the result of Exercise 13.2.18).
4. Exercise 14.1.9.