

Math 30750
Spring, 2017

Assignment 11, due Friday, April 21

Read: §§6.2–6.3 again, §§6.4, 5.6

Do:

§6.2 #1(a),(c),(e),(g),4,6,14. In #14(b), since we haven't done the Cauchy-Schwarz inequality, replace the hint by: *Hint:* Use §1.1 #8 (which was on Assignment 1).

§6.3 #2,3,12

§6.4 # 3,8,9,12 if we get far enough Wednesday, April 19. In #12, give an example of a series which converges at $-R$ and R , and example which converges at R and diverges at $-R$, and example which converges at $-R$ and diverges at R and an example which diverges at both R and $-R$.

The Riemann hypothesis, one of the million dollar Clay Institute Millenium Problems, is about the Riemann zeta function, which is defined in §6.3 #12.