

**PROBLEM SET 6, 16300 SECTION 21**

Due Friday May 8 in class.

1. Problem 27-1 part (ii) and (iv) and Problem 27-2 part (ii) and (iv) from Spivak.
2. Problem 27-5 from Spivak. Bonus: prove that  $\sum \frac{z^n}{n}$  converges for *all*  $z$  with  $|z| = 1$  except  $z = 1$ .
3. Problem 27-9 from Spivak.
4. Problem 27-14 from Spivak.
5. Problem 27-15 from Spivak.

Extra special bonus: 27-16, 17, 18 and 19 from Spivak.