

MATH 555 — FALL 2016 — HOMEWORK ASSIGNMENT 5 — DUE THURSDAY,  
OCTOBER 13

- (1) (Thursday?) Page 92, Problem 12.
- (2) (Friday?) Page 92, Problem 16.
- (3) (Saturday?) Page 92, Problem 17. (Please skip the continuation of the problem on page 93.)
- (4) (Tuesday?) Page 104, Problem 2. Note that the condition is  $|z| \leq R$ , not just  $|z| < R$ .
- (5) (Tuesday?) Page 104, Problem 3. Hint: look up and adapt to this situation a proof of the ratio test for numerical series.
- (6) (Tuesday?) Page 104, Problem 4(c,d).
- (7) (Wednesday?) Page 104, Problem 5.
- (8) (Wednesday?) Page 104, Problem 7(b).