

## MATE 6672 assignment 6

25. Exercise 9.3 p. 273.

26. Exercise 9.8 p. 275.

27. In the notation of lectures, show that lower-level sets of

$$\Phi : (c_0, c_1, \dots, c_n) \mapsto \|q_n - f\|$$

(uniform norm) are bounded, where  $q_n(x) = c_0 + c_1x + \dots$ .

28. Exercise 8.2 p. 248.

29. Exercise 8.4 pp. 248–249.

30. Exercise 8.6 p. 249.