

UM102 – Analysis and Linear Algebra II 2019 Spring Semester

[You are expected to write proofs / arguments with details of your reasoning, in solving these questions.]

Homework Set 4 (*Quiz on Monday, February 4, in Tutorial Session*)

From the textbook *Calculus, Vol. II* by Tom M. Apostol (2nd edition):

Section 3.6 (Exercises section), on pages 79–81:

Problems 1, 3, 5, 8(a), 9.

For 5, see Example 3 on page 77; for 8(a), you are allowed to assume Question 6 in these exercises.

You are allowed to use the properties of determinants (including the ‘basic properties’ we discussed in class on Jan 23 (Wed) and the advanced results from Jan 25 (Fri)), in solving these problems.