

This week on the problem set

\*Numbers in parentheses indicate the question has been taken from the textbook:

J. Rogawski, C. Adams, *Calculus, Multivariable*, 3<sup>rd</sup> Ed., W. H. Freeman & Company,

and refer to the section and question number in the textbook.

1. (Section 16.4) Questions 2, 3, 42, 43, 46, 48.
2. (Section 16.5) Questions 3, 6, 9, 11, 13, 18, 22, 23, 26, 29, 57\*, 60\*. (Use the following translations 4<sup>th</sup>  $\mapsto$  3<sup>rd</sup> editions: 18  $\mapsto$  16, 22  $\mapsto$  20, 23  $\mapsto$  21, 26  $\mapsto$  24, 29  $\mapsto$  27, 59  $\mapsto$  57, 62  $\mapsto$  60, otherwise the questions are the same).
3. (Section 16.6) Questions 24, 29, 31, 52\*. (Questions are the same in both editions)
4. (Section 17.1) Questions 13 – 17, 22, 26, 28, 29, 38, 42, 44, 47, 52, 56\*. (Use the following translations 4<sup>th</sup>  $\mapsto$  3<sup>rd</sup> editions: 47  $\mapsto$  45, 52  $\mapsto$  50, 56  $\mapsto$  54, otherwise the questions are the same).

\*The questions marked with an asterisk are more difficult or are of a form that would not appear on an exam. Nonetheless they are worth thinking about as they often test understanding at a deeper conceptual level.