

This week on the problem set you will get more practice applying and understanding Stokes' theorem, and some practice with the divergence theorem.

**Homework:** The homework will be due on Friday 7 June, at 10am, the *start* of the lecture. It will consist of questions:

18.2.24, 18.2.28 and 18.3.23.

\*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 18.2) 21, 23, 25, 26, 27, 29, 30, 34\*, 38\*. (Use the following translation 4<sup>th</sup>  $\mapsto$  3<sup>rd</sup> editions:  
 $n \mapsto n - 1$ .)
2. (Section 18.3) 5, 9, 11, 14, 15, 17, 20, 21, 23, 29. Questions are the same in the two editions.

\*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.