

This week on the problem set we will see many more exercises involving Taylor polynomials and their error terms. There is also a lot of practice of integration by parts and the method of partial fractions. Starred questions are usually (though not always) more difficult and/or not suitable for exams however are well worth thinking about!

Homework: On Friday 21 April the following questions will be due as homework.

9.4.59, 8.1.75, 8.1.78

Your solutions should be written up neatly and in full sentences with a clear logical flow (Top tip: read your solutions aloud, is every word you say written down? Do you have verbs, punctuation, etc?). Rough drafts, or work containing no words will not be graded.

The questions have been taken from the textbook:

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

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

1. (Section 9.4) 18, 21, 25, 28, 41, 42, 44, 45, 46, 47, 49, 51, 52, 53, 54, 59, 67\*, 71\*.
2. (Section 8.1) 13, 16, 19, 23, 26, 34, 38, 36, 55, 56, 58, 75, 78.
3. (Section 8.5) 1, 2, 4, 9, 12, 15, 16, 21, 25, 33, 39, 41, 49, 50, 53, 58, 62\*.