

This week on the problem set you will see examples of Taylor series. Starred questions are usually (though not always) more difficult and/or not suitable for exams however are well worth thinking about!

The questions are repeated below for convenience. 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*, 3rd Ed., W. H. Freeman & Company,

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

1. (Section 11.7) 3, 5, 7, 9, 17, 19, 25, 31, 36, 40, 41, 47, 55, 56, 60, 69, 82, 90*, 93*.