This week on the problem set we will review practice manipulating inverse functions, exponentials and logarithms. Starred questions are usually (though not always) more difficult not suitable for exams however are well worth thinking about!

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

       J. Rogawski, C. Adams, *Calculus, Single Variable*, 3$^{\text{rd}}$ Ed., W. H. Freeman & Company,

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

1. (Section 7.2) In some of the following questions the book does not specify a domain an codomain for the function of interest. Choose the largest possible domain, and the smallest possible codomain. 9, 13, 15, 18, 19, 21, 42*.

2. (Section 7.1) 7, 9, 25, 29, 35, 37, 51, 57, 59, 75, 79, 81, 93, 94*, 95*, 97.

3. (Section 7.3) 17, 23, 37, 41, 97, 101, 108, 111, 114, 121*.