

**ECON3120/4120 – Mathematics 2, spring 2011**

**Something to do before the seminars start**

Try your hand at the following problems before you come to class on Friday:

From MA1, 8th edition:

**5.10.1, 5.10.4, 5.10.5, 5.11.2, 5.11.5, 5.11.9.**

In the 7th edition the numbers are

**5.10.1, 5.10.4, \*), 5.11.2, 5.11.5, 5.11.8.**

and in EMEA,

**6.10.1, 6.10.5, 6.10.6, 6.11.2, 6.11.7, 6.11.9.**

\*) Problem 5.10.5 in MA1, 8th edition, is not in the 7th edition. The problem is to find the intervals where the following functions are increasing (“voksende”):

$$(a) \ y = \frac{x^2}{e^{2x}}, \quad (b) \ y = e^x - e^{3x}, \quad (c) \ y = \frac{e^{2x}}{x+2}.$$