Homework 03

1. Section 2.5: problems 37, 64(*), 67, 68(*), 77 (Need not graph it).

   Hint for problem 37: Theorem 10.

   Remark: optionally, you can hand in problems with (*) by Oct 05 in class for reviews and corrections.

2. Section 2.6: problems 29, 53, 61, 85, 92, 93(*), 95(*), 97.

   Remark: optionally, you can hand in problems with (*) by Oct 05 in class for reviews and corrections.

3. Study definition of the limits in p102, p119, p125 and p131. How would you define the four limits
$$\lim_{x \to \pm\infty} f(x) = \pm\infty?$$

   Verify the statement
$$\lim_{x \to \infty} -x^3 = -\infty$$

   using the definition you wrote.