goal: working with supremum, limit superior. working with order of epsilon

1. write down as much definitions for supremum as possible.
2. rework Q4 of test 1, try it for the case of quadratic, cubic, quartic and so on
3. rework Q5 of test 1 with limit of x_n replaced with 5
3.4: 12, 13, 19 (for limit superior)