Math 413 Analysis I
Problem Set 13

Due Friday December 5

Do the following exercises from Abbott's *Understanding Analysis.*

    Exercise 5.3.1

    Exercise 5.3.3

    Exercise 5.3.5

    Exercise 5.3.8

1) Let $r \in \mathbb{R}$. Prove that the polynomial $x^3 - 3x + r$ does not has two roots in the interval $[0, 1]$.