Second set of Problems. Second part of two.

- 1. Give an algorithm for computing all zeros of a function $f:[a,b] \to \mathbb{R}, f \in \mathcal{C}^1$, using interval arithmetic.
- 2. Generalize the previous algorithm for functions defined in boxes in \mathbb{R}^n .
- 3. Give an algorithm for computing all zeros of a polynomial. Is this algorithm different from the one you gave in Exercise 1?