```
let rec roots ~eps poly =
match Polynomial.degree poly with
 non_nat when non_nat <= 0 -> []
 | 1 -> poly |> linear_root |> Option.to_list
 | 2 -> poly |> quadratic_roots ~eps
 | ->
   poly
   > Polynomial.derivative
   > roots ~eps
   > I.intervals of list
   > List.filter_map ~f:(BS.search ~f:(fun x -> Polynomial.calc poly ~x) ~eps)
```