Homework 15

Try out Shamir secret sharing

- 1. Create a polynomial with the secret being the constant term a_0 , the other a values ($a_1\ldots a_4$) can be chosen at random The polynomial will be of the form $y(x)=a_4x^4+a_3x^3+a_2x^2+a_1x+a_0$
- 2. Calculate the y values for five x values by applying the polynomial, these are the shares.
- 3. Reconstruct the polynomial using those points and an online interpolation calculator such as https://planetcalc.com/8680/