

Try out Shamir secret sharing

1. Create a polynomial with the secret being the constant term a_0 , the other a values ($a_1 \dots a_4$) can be chosen at random
2. Calculate the y values for 5 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/>