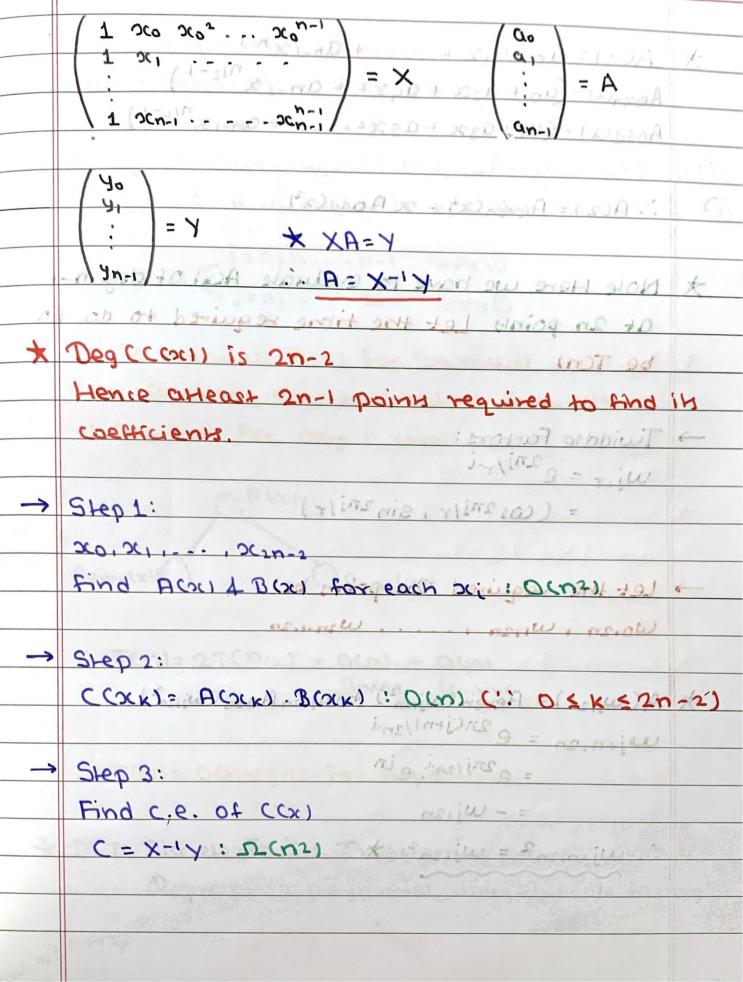
6 Fast Fourier Transform (FFT) A(oc) = \(\frac{\sigma}{2} a\_i \pi i \), B(oc) = \(\frac{\sigma}{2} b\_i \pi i \) (Coc) = A(xi) B(xi) x or swip rasso betroe:x CO mouse = (Co+C1)c+ ...+ C2n-22c2n-20 barros \* Maire: Ocn2) \* Polynomial can be represented as coefficient representation. Vector of wefficients \* Set of points representation A(Sc) = { (Scaryal, (Scriy)), ... (Scn-1, yn-1)} YK= ACXX \* Horner's Rule: A(x1) = a0+ .... > (an-3+x (an-2+xan-1)) Takes o(n)



$$A(x) = a_0 + a_1x + \dots + a_{n-1}x^{n-1}$$

$$Aeven(x) = (a_0 + a_2x + a_1x^2 + a_{n-2}x^{n/2-1})$$

$$Aodd(x) = (a_1 + a_2x + a_5x^2 + \dots + a_{n-1}x^{n/2-1})$$

$$A(x) = Aeven(x^3) + x Aadd(x^3)$$

$$A(x) = Aeven(x) + x Aadd(x^3)$$

$$A(x) = Aadd(x^3)$$

$$A(x) = Aeven(x) + x Aadd(x^3)$$

$$A(x) = Aadd(x^3)$$

$$A$$

