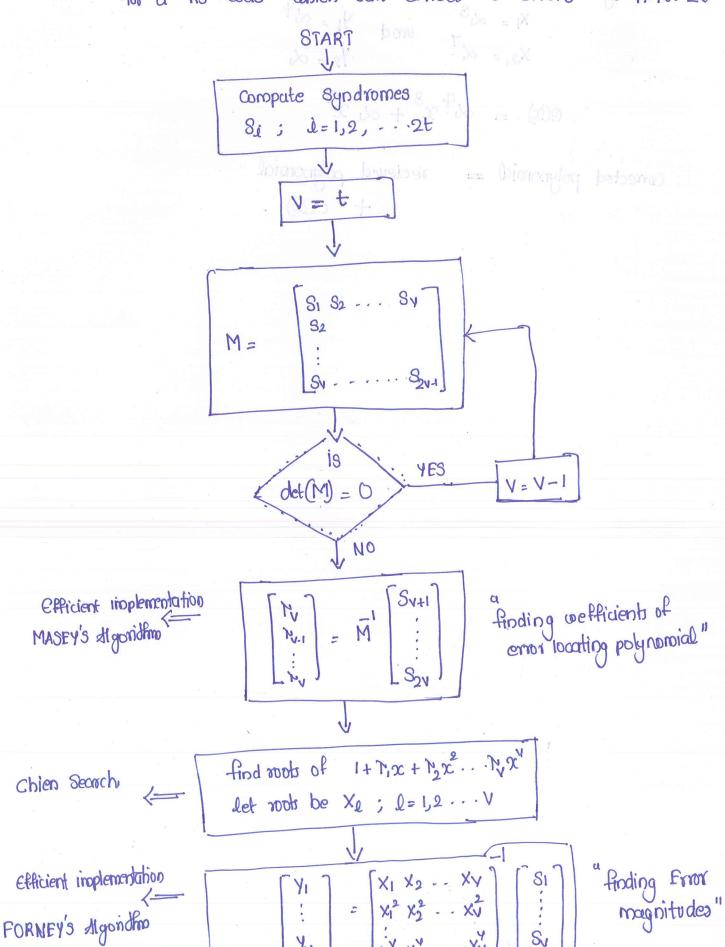
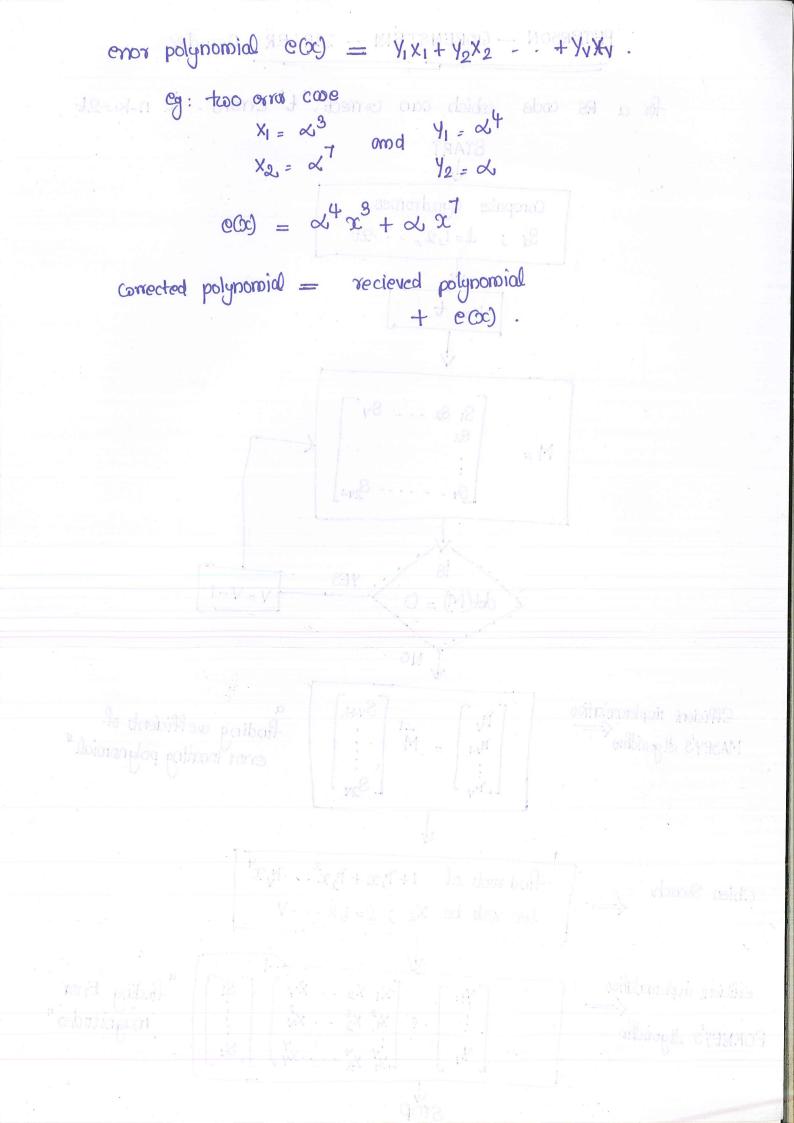
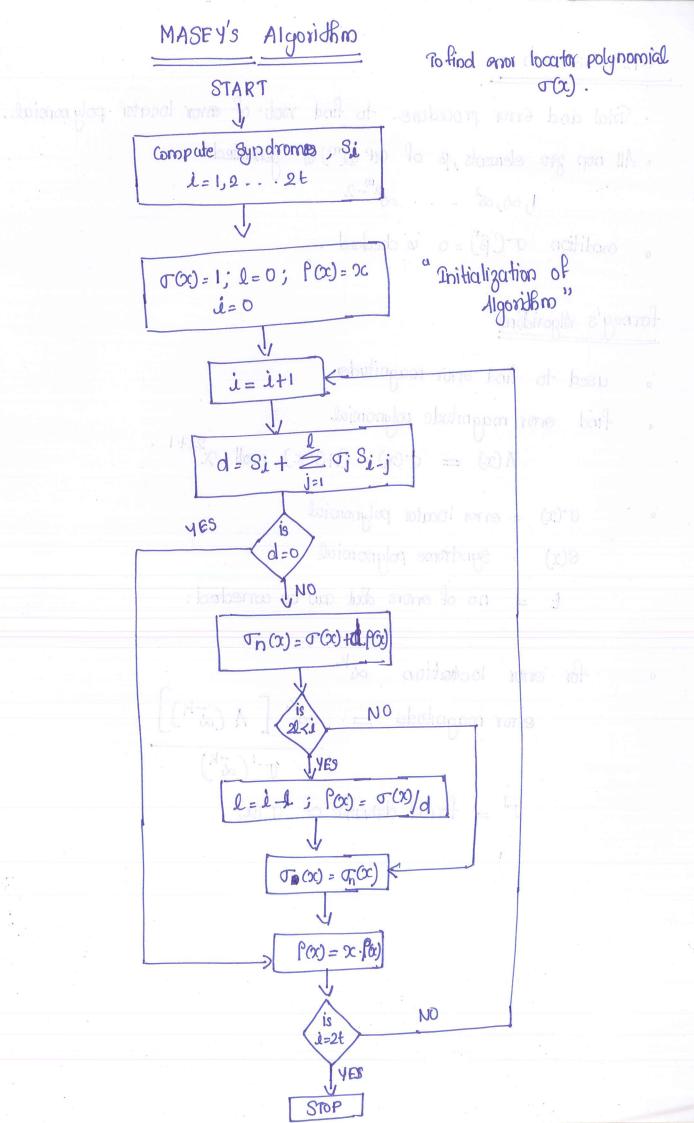
PETERSON - GORENSTEIN - ZIELER Decoder

for a RS code which can correct the errors. ie n-k=2t



STOP





Chien search was ball of

- . Trial and Error procedure to find not of error locator polynomial.
- · All non 300 elements, poof GIF (2m) is generated 1, d, d2 · d2m-2
- condition or (\$)=0 is checked.

formey's Algorithm

- . used to find onor magnitudes.
- . Find orny magnitude polynomial $\Lambda(x) = \sigma(x)$. (1+80c) mad x^{2t+1} .
- $\sigma(x) = \text{error locator polynomial}$ S(x) = Syndrome polynomial.
 - t = no of errors about our be corrected.
- of for error location ∞^k error magnitude = $\omega^k [\Lambda(\omega^k)]$ $T'(z^k)$ $T' = \text{formal derivative of } T(\infty)$