Suppose 
$$E/F$$
 GeGal( $F/F$ )  $F=FixG$   
and  $a \in E$  has a finite Garbil.  $\Lambda = 2 \sigma \alpha | r \in G$ ?  
Lemma.  $\Pi(x-\lambda) = \min_{F} \alpha = h$ .  $\Xi a_i x^i$   
 $is = \sum_{\lambda \in \Lambda} f(\alpha) = 0$ .  $G$  acts on  $E[x]$  by adjoin alls.  
 $E[x]^G = F[x]$   
min\_{F}  $\alpha | f$   $\Rightarrow f \in F[x]$   
 $h(\sigma \alpha) = \Xi a_i(\sigma \alpha)^i = \sigma (h(\alpha)) = 0$ 

$$in \in (x-\lambda) | h = \pi x \Rightarrow \pi (x-\lambda) | h = f(h) = f(h)$$

$$E[x] = \{ E_{q_i} x^i | q_i \in E \} = \{ (q_0, q_{1, \dots}) | q_i \in E^i \}$$

$$q_i = 0 \text{ (solution)}$$

$$\sigma(Sq_i x^i) = S\sigma(q_i) x^i$$

$$E[x] = \{ \sum q_i x^i \mid q_i \in E \} = \{ (q_0, q_{i,\dots}) \mid q_i \in E^i \}$$

$$q_i = 0 \pmod{2}$$

$$e(\sum q_i x^i) = \sum e(q_i) x^i$$

Also note: fis syrable.

$$E \simeq \frac{F[x]}{(f)} = cpliffy \quad [G] = \sum E(F)$$
$$= dy f$$

$$G \subseteq S_{100} + S_{10} + S_{10$$