2023010747到一路过32.

1. 11) Wx是加识单范根. 版. Wx=1

故Wx是方程Xm-1=0的根, K=0, m-1. 用比较值项系数.

第二-1、放馬×是方程×m+1=の削根、k=0,…,m-1.面比核育项経数、な×m+1=m=1×-5×)

$$\frac{2n}{11}(w_i + \overline{w_i}) = \frac{2n}{11}w_i(1 + \frac{\overline{w_i}}{w_i}) = \frac{2n}{11}(1 + w_{2n+1-2i}) = (-1)^n \frac{2n}{11}(1 + w_i) = (-1)^n (-2)$$

2.0 核丸.

①考底基1, 丘安按后的坐格。 Y Zo=ao+barz.

敬可定义重(a+b)(= (a b) 强证可知其满足重(ab)=重(a)重(b)

3 
$$M(a+b+cj+dk) = \begin{pmatrix} a-b-c-d \\ ba-dc \\ cda-b \\ d-cba \end{pmatrix}$$

3. (1) (9. (x), 9.(x))=1=> = u.k), u.(x) 9.(x) u.(x) + 92(x)u2(x)=1

$$\frac{f(x)}{g(x)} = \frac{u_1(x)f(x)g_1(x) + u_2(x)f(x)g_2(x)}{g_1(x)g_2(x)} = \frac{u_1(x)f(x)}{g_2(x)} + \frac{u_2(x)f(x)}{g_1(x)}.$$

$$u_1(x) f(x) = t_1(x) g_2(x) + f_2(x) deg(f_2(x)) < deg(g_2(x))$$
 $u_2(x) f(x) = t_2(x) g_1(x) + f_2(x) deg(f_1(x)) \ge deg(g_1(x))$ 

(2) 不可约多级式乐电视。

 $\frac{6\lambda(q_{(K)},q_{(K)})=1}{2!u_{(K)},u_{(K)}} = \frac{u_{(K)}+u_{(K)}+q_{(K)}}{q_{(K)}} = \frac{1}{q_{(K)}} = \frac{1}{q_{$ 

$$\frac{f(x)}{q(x)} = \frac{f(x)}{\prod_{i=1}^{n} p_i^{n_i}(x)} = b(x) + \frac{a(x)}{\prod_{i=1}^{n} p_i^{n_i}(x)} \xrightarrow{\text{if } (x)} \sqrt{\prod_{i=1}^{n} p_i^{n_i}(x)} + \cdots + \frac{a_k(x)}{p_k^{n_i}(x)}$$

对 
$$\frac{a_{ik}(x)}{p_{i}^{n_{i}}(x)}$$
 可闭  $a_{i}$  分成  $\frac{h_{n_{i}(x)}}{p_{i}^{n_{i}}(x)} + \frac{a_{ik-1}(x)}{p_{i}^{n_{i}}(x)}$  其中  $\frac{a_{ik-1}(x)}{p_{i}^{n_{i}}(x)}$  还能程下分解查到分子识数  $d_{i}$  子分母  $d_{ik}$   $d_{ik}$