23.4.18 ← breR-H, 老虎.T=H+rR. 江野+八 20. (1) Yaitbi, autho GA+13, reR, (a, +b,) - (2+b2)=(a,-a2)+(b,-b2) eA+B, (a,+b,)r=a,r+b,reA+B. r(a,tb) = ra, +rb, eA+B. 故战X知A+B及注想. (2) R= [Zkijxiyi | kijez]. A= [= kixi]. B= {= k; y) }. 23. H4x, 4% & D, a&A, $4x_1 - 4x_2 = 4(x_1 - x_2) &D$ $4x_1 \cdot a = a \cdot 4x_1 = 4(ax_1) \in D$. 故就以知及A的理想. AID= [98,42+2]. 26. 显然R/H足及接的含红. R/HRJ系《OR/H-SH]有连元. => YI>H, a ieI-H. H+i+H, 数三H+j, (H+i)(H+i)=H+l, BP 3heH, ij=h+1. 故にj-heI. Hrer, r=1.reI. 故I=R,即说明H&R的极独想.

易知足R的超想,图HCI, 数I=R. IEI, EPBr', rr'eHtl. 沙洋网R/HJ. 30. 8 JJ f(x) = = kixi, f(0) = ko, 故显然 贬满射. Ifix= Ekixi, gix= Elixi, 4(fx)+g(x)) = ko+lo= 4(f(x))+ 4(g(x)), $\varphi(f(x)g(x)) = k_0 l_0 = \varphi(f(x)) \varphi(g(x)).$ 城区积 经满目态. Kerp= [xf(x)] fa) e F(x)]. F[x]/Ker4= [Ker4+k]keF].

34. 下面派—彭江环的这、 〈EndG, +〉尾Abel群: 交接: (f +g)(x)= f(x)+g(x)=g(x)+f(x)=(g+f)(x). 程元: 罗宪托. 遂元: f的逆元之一f. 〔经台:((f+g)+h)(x)= f(x)+g(x)+h(x)=(f+(g+h))(x).

(EndG, 0)定書等: 経会:((fog)のh)(x)=f(g(h(x)))=(fogoh))(x).

公配律:最验证.

並<EndG,+10>送手不. ic 9b: 6→G, a°1→aki.

EndG = 5 PR [k=0,1,..., n-1].