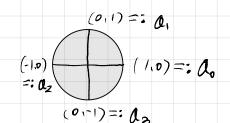
Encoding



 $(/,0) \stackrel{?}{=} 0_0$, $(0,1)\stackrel{?}{=} 0_1$, $(-1,0) \stackrel{?}{=} 0_2$, $(0,-1)\stackrel{?}{=} 0_3$ $(0,-1)\stackrel{?}{=} 0_3$ $(1/0) \stackrel{?}{=} 0_0$, $(0,1) \stackrel{?}{=} 0_1$, $(-1,0) \stackrel{?}{=} 0_2$, $(0,-1) \stackrel{?}{=} 0_3$ 2+ $(-1/2) \stackrel{?}{=} 0_4$ 24 $(-1/2) \stackrel{?}{=} 0_4$ 2 $(-1/2) \stackrel{?}{=} 0_4$ 2

2210 Da & 1 on ear span of ED, B2 = 3132+ 3+7/2012+.

 $D_{2^{k}} = 2b_{1} \| b_{1} \| b_{2} = B_{2^{k-1}} \cup 2^{k} \| 2^{k} \| 2^{k} \|$ $B_{2^{k}} = 2b_{1} \| b_{1} \| b_{2} = B_{2^{k-1}} \cup 2^{k} \| 2^{k} \| 2^{k} \| 2^{k} \|$

more span By & 22 21 normal subgroup of 212,

Cx= 7 0 ... 0 11 b; | b; 6 B2 k-1 7 3 20 10 +2

Dak & Span 3 Bak, Can 3 & Melatasuct

φ: Z4 -> R s.t φ(5,61,-5K) = Σφ'(5) 3 2003121,

0 = inner product & 720 0722 362 02 4 922,

 $\phi(gan(B_x)) = 3(0,0,-12) = 4 \text{ 1.00}$

\$\phi(\mathbb{D}_{2x}) = 7/.6 \leq \frac{1}{2}? \cdot \leq \luztr