## Semimor 8-143

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8m: 1=ac-18=ca=d2=e3=q2=q2 G= cand>

and ec = , casels subgrapion c.

G = cod>

Putom soi bossem pecone xea ca ambimodie de a sid

(a)d>=11, a)d, a=b) a=c od=e, ad=f, ad=g}

G=31,0,0,0,0,0,0,00,00,00,000,000,000

Obs: Brugul DiEDRAL Day (Dear). Vom mota Day (m = con. Est. petigernului razulat).

Don =  $\langle L, K \rangle$  >  $L = \text{kinnetrie} \cdot L^2 = 1$   $K = \text{kinnetrie} \cdot de \neq \overline{m} \cdot K^n = 1$ .

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b. end (b) = end (d) = end (e) = end (f) = end (g) = 2 ond (a) = ond (c) = 4. C. Subgarprice en G: 313, G. x<a>=31000boc3=40> x<bod>=31,6,d, 6=f3 8901 (= cd>X < 4, d> <d>= 31003 x <b, e>= \$1, b, e, g? = < b, g>. <e>=31,e3 < f>=315 f3. < 9> = {10,93. Obs: Se poale obs. ca xb=bx, 4 xEG. Daca H este subgrup in a cu propr. ca xh=hx 4 ReH, sceG, atumaiteste mormal. H=<a>=31,a,b,e3. TaH = H = Ha bH = Hb=H decoxece xb=bx, 4 xeG. CH = H = HC dH=3d,da,db,dc3=8d,9,f,e3 Hd = 3 dsads bdscd3 = {d,esp,93. eH = }e,d,g,q3 = {e,f,g,d3=He Se arata ca PH=HP 8: gH=Hg. Obs: Daca G este grup finit si H subgrup in G au 16:41=2, shunci H este mormal. 16:14/ = 16/ (Lagrange) d. 6/<b> > <b>= H. - marmal Jagrande: 101 = 141.10:41

8 = 2.16:H1 => 16:H1=4 => 6/H)=4.

G/H : 1 = 6 G/H : 1 = 6  $G/H = \{ \hat{x} \mid x \in G \}, \hat{x} = xH = Hx.$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$   $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$  $\hat{a} = aH = 3a, ab \} = 3a, c \} = \hat{a}$ 

Obs: Un group ou h elem. este jament ou (Thit) ou

end(a)=end(a)=end(e)=2. => G/H = 76x762.

(G/4) N = } XH | XEG?

x Ny (=) xy-1 eH (=) x e Hy. (6/H)d.

(74s+) - pup ciclic + are elem de ordin 4.

(2/2 x 2/2)+) - orice elem. = elem. menter are ordin 2

Ex. (toma): The Gro Ga doud garpois to, selem, menter in Gi, la 2 « elem. neutre im Ga. Atunci Gixoa, este grup au elem. monthy (10, 100). Moi must , does a e.G., ond(a)=0, 500) [m, m] = ((a, b)) to inser, at unci end ((a, b)) = [m, m]. [Lm,m] = Pw) p.d = m.m d = (m, m) wed wy spediming (m, m) = 1 (0°P) = (0, Pb) = (0q.w., w, Pq.w., w,) +(w)w, Panla, = ( Now 100). though can present cel mai mic mr. mat en aceastar people. Ex. 3: Det. ordinal Qui (3,5) ?m (745x 745+), (240 x 242) 1/2 (245 x 220 st). Sex: (e's) b' and (x) = (w) = ) and (xx) =  $\frac{(w)x}{a}$  = animage and  $(i) = m \cdot 2m(2Lm + 1)$  $\operatorname{end}(k) = \frac{(\omega^2 k)}{\omega} \operatorname{su}(s^2 k)$ 715 x 7/7 and(3) = 5 } and (3,2) = 3576x742: end (3) = 3 = 3 = 3 = 3 and (3,2) = 6.

The ord (a) = 
$$5 = \frac{15}{(a_{5})} = 3$$
 (a)  $\frac{1}{5} = 3$  =  $3 = 3$  (a)  $\frac{1}{5} = 3$  (b)  $\frac{1}{5} = 3$  (b)  $\frac{1}{5} = 3$  (b)  $\frac{1}{5} = 3$  (c)  $\frac{1}{5} = 3$  (c)  $\frac{1}{5} = 3$  (c)  $\frac{1}{5} = 3$  (d)  $\frac{1}{5} = 3$  (e)  $\frac{1}{5} = 3$  (f)  $\frac{1}{5} = 3$ 

III. 
$$end(a) = 5 = 0$$
  $a \in \{3, 6, 9, 12\}$ .  
 $end(b) = 2 = \frac{20}{(b, 20)} = 0 = 0$   $b = 10$ .