Nabelian > N & (symcn) => (symcn) = N. \Rightarrow $C_{\alpha}(N) = N$. \Rightarrow $C_{\alpha}(N) < C_{\alpha}(N) < C_{\alpha}(N)$. $|\Omega| = h = |N|$. I regular. gren $n \in \mathbb{N}$. $X_n = X_n^n$. Clim: Cx, 5 Ant (N) = Cilcle, p). Lemna: N regular normal shapp of a. Then a is a semi direct product of N and ax Thm. If $\Omega \leq \operatorname{Sym}(\Omega)$, N reguler hormal shapp, then $C = N \times C \times A$ and $C \times A \times A + C N$ 1alcd, 2) 1 = $|Cl(d,q_5)| \le |M_{d}(q_5)| = gd.$ $|Cl(d,q_5)| = (gd-1) - \cdots - (gd-gd-1)$ $|Qhothert| = gd. (1-\frac{1}{gd}) - \cdots - (1-\frac{1}{g}).$ $\angle (\zeta) = \prod_{t=1}^{\infty} (1 - \frac{1}{\zeta^t})$ Elog (I-an) (They (Think) = log(1-25n). Ex. O(Con<1. Trunto (). Ianco (h=qd).

[Cor. If a Son there a abelian regular Normal Shapp., then.

[Cal. S. Niteor. Ex Prome that. exact some bound if dryp abelian Pat- West - Thm. If Ci's primitive and shoulde, then [CI 50° C=3.4... Ex t tourhappent, then AntiT) odd orden. Ex. Prove egynvalent: D'Ant: T Salvable. 2 add order. Thm. Thm.
cluks) If X is a graph of clegree at most d. and connected,
e E E(X), then. (Aut (X)) e. E Pd-1. TR = Stimite gps st. every composition factor is a slogge Ex. of Sk3 Lem. GER iff Ghas a slegpo chain. G=Go > Go > -- > Go=1

Ü	St. far. (Hi) C[Ci-1: Cil & k)
	$ C_i C_{ix} = x^{\alpha} $ fix edges by
	CiCx = 1xh1 Connected => rend all.
	This characterizer the Stabilizers of Ant X in a.
B-Caner	
()	To Color primitive. a & Tre. then I al < nocks.
	TR au. non abelian Comp. R factors & Sk. Same Conclusion
	TR: BCP-groups. ARH is not involved in a. (as a quotient) of slogps. Still the same conclusion.
Ex	TR CTR. Still the same conclusion.