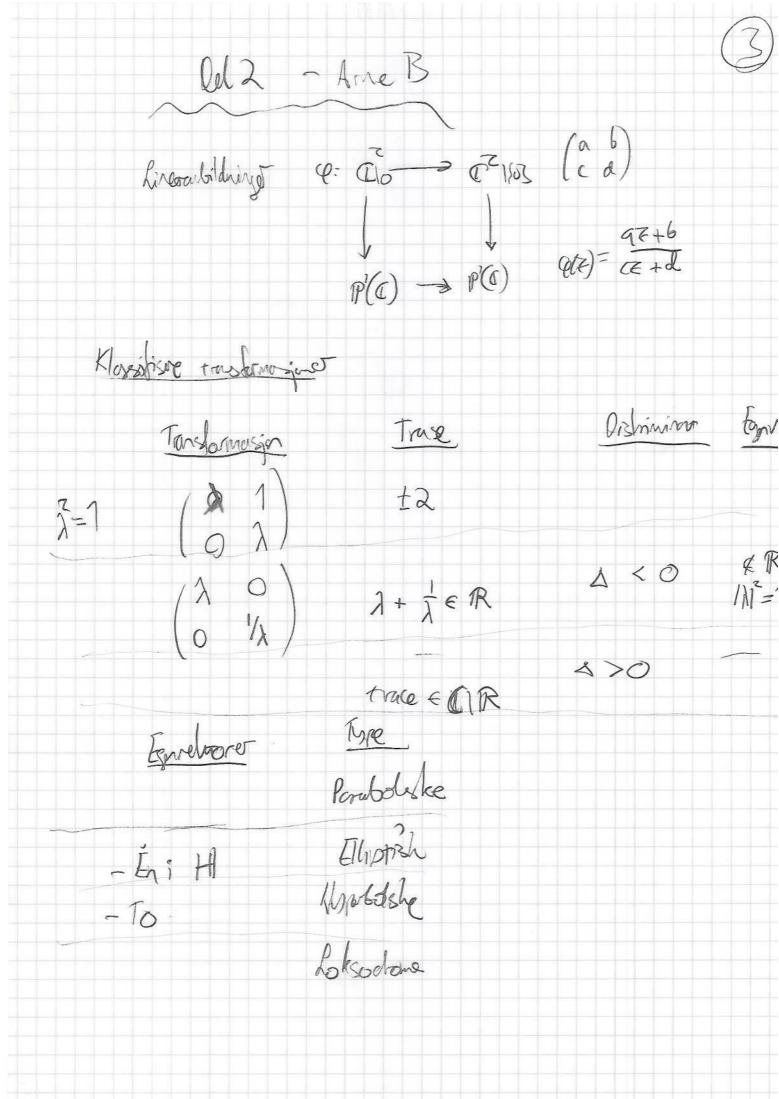
	Thanks Kleppe	C
	Distrece indograps as SL2(R)	
· [(N)	(Z) $= \begin{cases} \left(\begin{array}{c} a & 6 \\ c & d \end{array} \right) \left(\begin{array}{c} a & 6 \\ c & d \end{array} \right) \left(\begin{array}{c} a & 6 \\ c & d \end{array} \right) = \left(\begin{array}{c} 0 & 1 \\ c & d \end{array} \right) \begin{cases} a & 6 \\ c & d \end{array} \right)$	
· [(N))= \{ -11 \ C= O mod N \}	
To(N) de m	er et els. pe en kegnersenbegrepe au 522 (veloder MN).	Z), (
Se pa	$\rightarrow \Gamma(N) \rightarrow \mathcal{L}_2(1) \rightarrow \mathcal{L}_2(1) \rightarrow 1$	
se or de	n er elselt på høyresidn:	
la A E	SL2 (4N) holt bil A n2(Z) s.a. 4(A) = 1 mod 1.	
D	ad- $bc = 1 + mN$. Må ha $gcd(r_id,N) = 1$. V_i $d + nN = 1 \mod p \forall p c, p N$ $h = 0 \mod p \forall p c, p N$	'I fin
En slih	n eluster y lineside retrement.	

On or oxd(C,d+nN)=1. Ersont d'y d+nN. la 7 e,le I sa. m=fc-ed. h B= (a+eN 6+fN) Der er der B= ad + cdN-bc-fcN = 1+ mN + cdN - ScN = 1 + (m + cd - fc) N = 1 Sider $S_2(2)$ er ar i $SL_2(2)$ like inphrase or I = lim I/N = TIZe. To indegrippet, 17 os 17, et kommersvakle his 1715/ her undelize intes i 17, 1%. · Supper of arithersy ander kommensvable of Sta (2)





Da 7 1,567 s.a. rm-sn=1. la S=(m s). $G(\infty)=(m s)(1)=(m) s$ Den stadiliseur 87 8 (2) = m / 50 m obser plantolish. And morsell our $\alpha \in SL_{\alpha}(2)$ parabolish. $\Omega_{\alpha} \ni \delta \in SL_{\alpha}(2)$ slih out $\alpha = \pm \delta \vdash \delta$. Filosof $\delta \in SL_{\alpha}(2)$. Time ellipsishe pulsere under 17/9). in ZEH. Filiphor Er 8 = M1)z. Men p(1) z er addis syhlish, så d har addis orden. Som lin. and e y= () D 7 enters of. For roi er hodarish polynom /a. 1 te rote au 7 i en hadarish wridele on a, m=1/2,34,6.

The factor ellipsishe pention: e, $p=3\sqrt{4}=\frac{1}{2}+i\frac{13}{2}$.

Kompleho smar på Tai/Ht. Q: the ellipsiste, U> Q l'an not $\mathcal{L} S = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix} \qquad T = \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}$ $T = \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix} \qquad \mathcal{L} \left(\frac{z - \hat{i}}{z + \hat{i}} \right)$ $T = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \qquad T = \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix} \qquad \mathcal{L} \left(\frac{z - \hat{i}}{z + \hat{i}} \right)$ ejen des an o. Kin by (HO), +1) I tillet 2: p non 13 eller 5 $Q = i \omega$. $q(z) = e_{i} q(2\pi i z)$. Gers on X(P) = M/X + x ((141))

