$$\Delta , H^{+} \qquad Q(s) = \frac{z - i}{-iz + 1}$$

$$\Delta \leftarrow \Delta$$

$$G_{\Delta}^{+} = \left\{ f \in PSL(2,G) \middle| f(\Delta) = \Delta \right\}$$

$$G_{H^{+}}^{+}$$

$$H^{+}$$

$$H^{+}$$

Lema $f \in P^3L(2, \mathbb{C})$, f inferencies^t.

$$Ax^{2} + Ay^{2} + Dx + Ey + F = 0$$

eccación de circumferenca $(A = 0)$

$$Re(2)=X=\frac{2+\frac{2}{2}}{2}$$
 $y=\frac{2-\frac{2}{2}}{2i}$

$$A\left[\frac{4}{(z+\overline{z})^{2}} - (z-\overline{z})^{2}\right] + D\frac{2}{z+z} + E\frac{2-\overline{z}}{zi} + F = 0$$

$$Az\overline{2} + \frac{D-iF}{2}z + \frac{D+iE}{2}\overline{z} + F = 0$$

$$AZZ + BZ + BZ + C = 0$$
 A, CER
E-cooperion circuit #

$$f(z) = {ab \choose cb} {z \choose 1}$$

$$f: \widehat{C} \longrightarrow \widehat{C}$$

$$f[C]$$

$$z = f^{-1}(\omega) = \left(\frac{d}{-c} - \frac{b}{a}\right) \left(\frac{\omega}{1}\right) \qquad ad-bc = 1$$

$$z = \frac{d\omega - b}{-c\omega + a} \qquad \overline{z} = \frac{\overline{d\omega} - \overline{b}}{\overline{-c\omega} + \overline{a}}$$

$$Az\overline{z} + Bz + \overline{B}\overline{z} + C = 0$$

$$f^{0}$$

$$A'_{1}\omega + B'_{1}\omega + C' = 0$$

$$A'_{1}C' \in \mathbb{R}$$

Corobarco 4 puntos en CP' estan en una circunferenciat si y solo si su razon cruzada (doble) es real Too (de 3 en 3) dodos 3 pmbs zi arbotrarios en RP' y sus imagenes wi existe ma unea TEPr(I) (PSL(2,C)) T(Zi) = W;

$$G_{H}^{+} = \left\{ f \in PSL(2,\mathbb{C}) \right\} f(R) = R$$

3. $a,b,c,d \in R$ $f[R] = R$

$$A^{e} = \left\{ cs \text{ condition sufficiente} \right\}$$

$$f(e) = \left(a,b \right) \left(c \right) = \frac{az+b}{cz+d}$$

$$f(o) = \frac{b}{d} \in R$$

$$f(o) = \frac{a+b}{c+d} \in R$$

$$f(o) = \frac{a+b}{c+d} \in R$$

$$c = ka+kb-d$$

$$ka+(kl-1)d$$

$$c = klc+(kl-1)d$$

$$c = (kk-1)d$$

$$f(z) = \begin{pmatrix} m_1 d & m_2 d \\ m_3 d & d \end{pmatrix} \begin{pmatrix} z \\ 1 \end{pmatrix}$$

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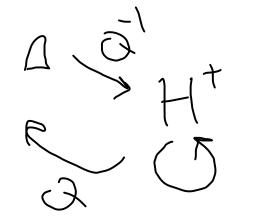
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$$\begin{pmatrix} m_1 & m_3 \\ m_3 &$$

as thonar la forma $\frac{az+b}{cz+d}$ $\frac{a(-z)+b}{c(-z)+d}$ abiciq ER G Ht

Para el disco



$$G_{\Delta}^{\dagger} U G_{\Delta} = G_{\Delta}$$