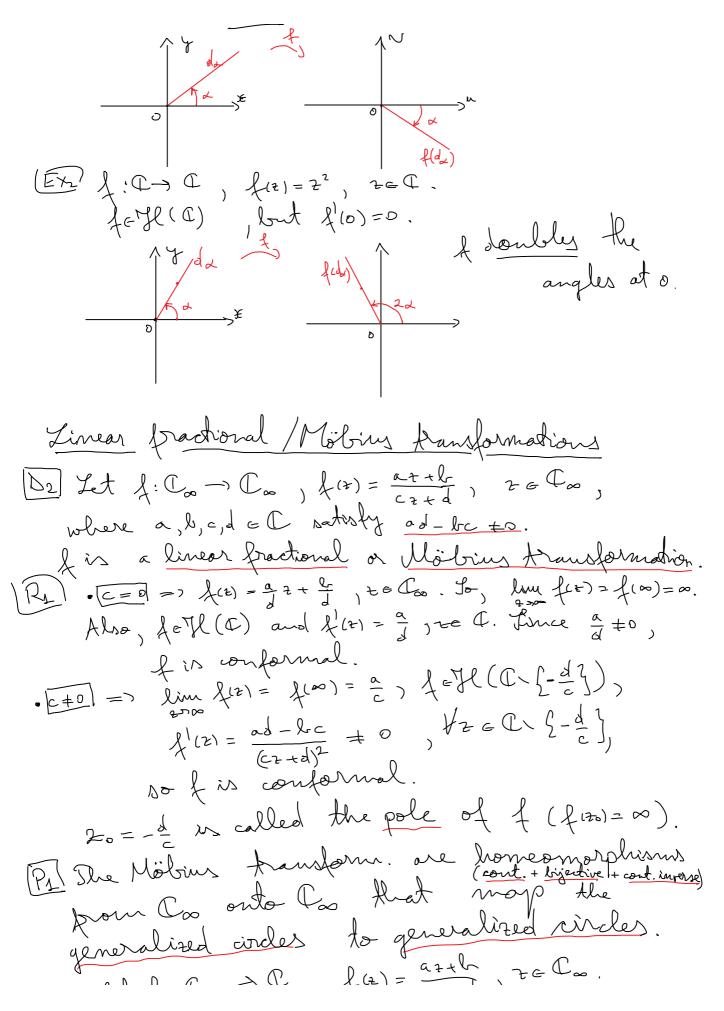
Courses Page 2



generalized circles no g Let $f: C_{\infty} \rightarrow C_{\infty}, f(z) = \frac{a_{2+1}b_{1}}{c_{2+2}}, z \in C_{\infty}.$ • C=0: arele to unde and line to line (RZ) If H is the family of all Möbins transformations, Alen (H, o) is group (o is the composition btur Alen (H, o) is group (o the functions). 13] Let 21, 22, 23, 24 = Cas be distinct. $(z_{L_1}, z_{2_1}, z_{3_1}) = \frac{z_{1} - z_{2}}{z_{1} - z_{1}} \frac{z_{3} - z_{2}}{z_{3} - z_{1}}$ is the P2 Möbins bansform. preserve the ross-ratio of any haisting points in Co. fett and th, tr, tr, tr, the Coo dustinet $=) (z_{1}, z_{2}, z_{3}, z_{4}) = (f(z_{1}), f(z_{1}), f(z_{3}), f(z_{4}))$ R3 If 21, 22, 7, E Co are destrind and W1, W2, W3 E Co are destrind Alen 3! fett st. f(z) = Wo j j e4, 2, 3} I & is obtained by solong the 22.: $(2, 24, 22, 23) = (W, W_1, W_2, W_3)$ =) $W = f^{(2)}$ so the sol.