





(4)14 1= R 2, 22, 6 = R TZ = (2, 2, 24, 25) = a2+6 T(Roo) = 1Roo, so 9,6,0,d can be chosen in IR It follows that Im (2, 2, 2, 2, 2) = (ad-be) Im(2) It follows that { Z: Im(Z, Z, Z, Z) LO ? #s either The upperson lower half plane depending on whether ad-be is positive of determinant negative. Now let I be arbitrary w/ Z, Z, Z, Z ET. Take & Mobius, $= 5 \{ 2 : T_m(2, S_{2i}, S_{ti}, S_{ts}) > 0 \},$ so i choosing S: P-7 Roo, then (2 Im (2, 2, 2, 2) 3 = 5 (uppen) or S (lower)

(5) If (z_1, z_2, z_3) is an orientation of P, then

the RHS of P is $\{z: \text{Im}(z_1, z_1, z_2, z_3)\}$ following is immediate: Pi, Fi circles Co

