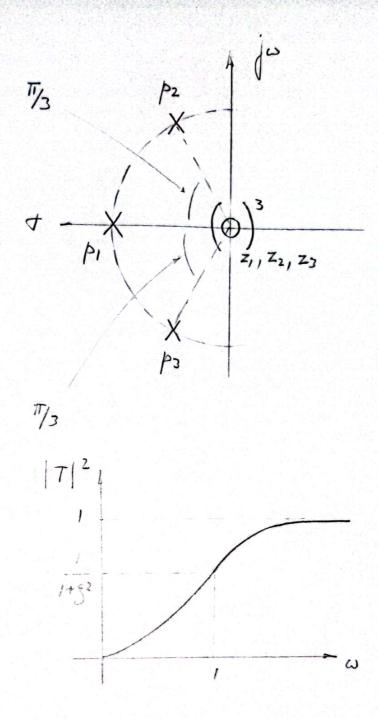
$$T_{PA}(s) = \frac{s^3}{s^3 + 1,5967 s^2 + 1,2747 s + 0,5088}$$

Singularidades del numera dor:
$$Z_1 = Z_2 = Z_3 = 0$$

fungularidades del numera dor: $p_1 = -0.7983$
 $p_2 = -0.3992 + j.0.6914$
 $p_3 = -0.3992 - j.0.6914$
 $p_4 = 0.7983 4.180^\circ$
 $p_2 = 0.7983 4.120^\circ$
 $p_3 = 0.7983 4.120^\circ$
 $p_3 = 0.7983 4.120^\circ$



Respects al diagrama de polos y ceros del filtro puna bijos prototipo, los polos complejos conjugados se alternam tia modificar el sistema y los ceros se mapean al origon.

Ver Schamana Fig. 9.6: Recipro cation of pola positions in the Loupass to high pass transformation y Fig 9.7: Pole recipro cation in Butterworth functions (País 349 y 360).