clear all;

clc

T1 = 11;

T2 = 2;

%%

% Felnyitott kör:

Wp = tf(2,conv([2 1],[11 1]));

% PI szabályzó:

Ti = T1;

Wpi = tf([Ti 1],[Ti 0]);

%%

W0 = series(Wp,Wpi);

margin(W0);

%%

Ap = 10^(5.31/20);

Wpi = Wpi\*Ap

%%

Ts = 0.1;

Dz = c2d(Wpi, Ts, 'zoh')