Anular error estado estacionario en sistema

Tarea #6 Profesor: Erick Salas Estudiante: Johan Vega R Parte en matlab: >> num=[0 0 0 1] num = 0001 >> den=[1 5 6 0] den = 1560 >> A=tf(num,den) A = 1 ---- $s^3 + 5 s^2 + 6 s$ Continuous-time transfer function. >> H=1 H = 1 >> W=feedback(A,H) W = 1 -----

$$s^3 + 5 s^2 + 6 s + 1$$

Continuous-time transfer function.

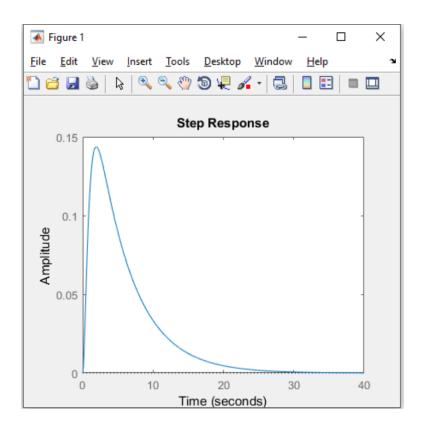
>> P=feedback(1,W)

P=

$$s^3 + 5 s^2 + 6 s + 2$$

Continuous-time transfer function.

>> step(P)



Parte a Mano

Ess=
$$\lim_{s\to 0} S * \frac{1}{1 + \frac{1}{s(s+2)(s+3)}} * \frac{1}{s}$$

$$= \frac{\frac{1}{1}}{\frac{s(s+2)(s+3)+1}{s(s+2)(s+3)}}$$

$$= \frac{s(s+2)(s+3)}{s(s+2)(s+3)+1}$$

$$= \frac{0(0+2)(0+3)}{0(0+2)(0+3)+1}$$

$$= \frac{0}{1}$$

$$= 0$$

Según tabla error estado estacionario

Sistema Tipo	Entrada Escalón
0	$\frac{1}{1+K}$
1	0
С	0

