$$(5+1)(s+2)(s+3)$$

$$G(s) = \frac{Y(s)}{R(s)} = \frac{(s+10)K}{s^3 + 6s^2 + (11-K)_5 + (6+10K)}$$

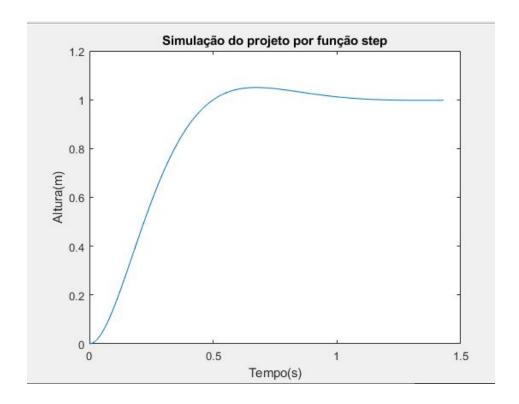
tabela de Routh:

$$E(s) = \frac{1}{5} - Y(s) = \frac{1}{5} - \frac{(s+10)k}{s(s^2+6)^2+11+k} = \frac{s^3+6s^2+11s+6}{s(s^2+6)^2+11+k} = \frac{s^3+6s^2+11+k}{s(s^2+6)^2+11+k} =$$

Scanned with CamScanner

02) a)
$$|\dot{x}(\tau_0,\dot{\tau_0},b)| = 0$$
 $|\dot{x}(\tau_0,\dot{\tau_0},b)| = 0$
 $|\dot{x}(\tau_0,\dot{$

$$PD = \frac{1}{2} + \frac{1}{2} +$$



Observa-se que o sobressinal e o tempo de subida são consistentes com os previstos no enunciado.