EN 3143

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MATLAB Exercise

From MATLAD Implementation,

$$T = \begin{bmatrix} -6 \\ -4 \\ 3 \end{bmatrix}, p = \begin{bmatrix} -3 \\ -2 \\ -1 \end{bmatrix}, k = 2$$

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$\frac{8(s)}{4(s)} = \frac{s^2 + 2s + 3}{s^2 + 3s^2 + 3s + 1}$$

From MATLAB implementation,

$$r = \begin{bmatrix} 1 \\ 6 \\ 2 \end{bmatrix}, \quad p = \begin{bmatrix} -1 \\ -1 \\ -1 \end{bmatrix}, \quad k = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$$

$$\frac{B(s)}{A(s)} = \frac{1}{s+1} + \frac{o}{(s+1)^2} + \frac{2}{(s+1)^3}$$

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