$$A = \begin{bmatrix} -4 & +1.5 \\ 4 & 0 \end{bmatrix}, B = \begin{bmatrix} 2 \\ 1.5 \end{bmatrix}, C = \begin{bmatrix} 1.5 & 0.625 \end{bmatrix}, D = 0$$

$$sI - A = \begin{bmatrix} 5 + 4 & 1.5 \\ -4 & 5 \end{bmatrix}$$

$$dot(sI - A) = \begin{bmatrix} 5 & +1.5 \\ 4 & 5+4 \end{bmatrix}$$

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$$G(s) = \frac{y(s)}{(1/s)} = \frac{24}{s^3 + 9s^2 + 26s + 24}$$

$$(s^3 + 9s^2 + 26s + 24)y(s) = 24U(s)$$

$$x_1 = y \text{ Aft.} \quad \dot{x}_1 = x_2$$

$$x_2 > \dot{y} = y \text{ Aft.} \quad \dot{x}_2 = x_3$$

$$x_3 = \dot{y} = x_2 = x_3$$

$$x_3 = \dot{y} = x_3 + 26x_2 - 24x_1 + 24u(s)$$

$$(\dot{x}_1, \dot{y}_2) = 0 \quad 0 \quad (x_1, \dot{y}_3) = 0$$

$$(x_1, \dot{y}_2) = 0 \quad 0 \quad (x_2, \dot{y}_3) = 0$$

$$(x_3, \dot{y}_3) = 0 \quad 0 \quad (x_4, \dot{y}_3) = 0$$

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