$$C(S) = \frac{1 - S_{-1}}{5 - S_{-1}} = \frac{S - 1}{5S - 1}$$

$$((3)(3)(3) = \frac{(28-1)(2-0.5)(2-0.4)}{(2-1)(2-0.5)(2-0.4)}$$

$$(z + 0.4) \Rightarrow x = \frac{(z + 0.4)}{(z + 0.4)} \times (z + 0.4)$$

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$$(z+o\cdot\psi) \qquad \qquad (ac)(z) = \frac{a(z)}{(+a(z)(+cz))}$$

$$(Z-1)(Z-0.4) + (Z+0.4)$$

$$(E: HG(8)H(8)$$

(2-1)(Z-D·4)

$$((3)(3)(3) = \frac{(27-1)(0.5 - 0.2)}{(2-1)(2-0.5)(2-0.4)}$$

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CE:

$$\left(\frac{(28-1)(0.52+0.2)}{(2-1)(2-0.5)(2-0.4)}\right) = 0$$

$$= 2^3 - 0.92^2 + 0.22 - 2^2 + 0.92 - 0.2$$

$$= \mathbb{Z}^3 - 0.9 \mathbb{Z}^2 + \mathbb{Z} - 0.4 = 0$$

$$z^{\circ}$$
  $z^{\circ}$   $z^{\circ}$ 

$$\begin{cases} f_{0.4} | < 1 \\ p(1) = 1 - 0.9 + 1 - 0.4 = 0.7 > 0 \\ p(-1) = -1 - 0.9 - 1 - 0.4 < 0 \\ n = 3$$

$$|b_{2}| > |b_{0}| \quad 0.89 > 0.62$$

$$|c| = \lim_{z \to 1} \left[ (1 - z^{-1}) - \frac{1}{(1 + C(z) C_{eAS}(z))} R(z) \right]$$

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$$|c| = \lim_{z \to 1} \frac{1}{(1 - z^{-1})} \frac{1}{(2z - 1)(0.5 z + 0.2)}$$

$$|c| = 0$$

$$|c| = \lim_{z \to 1} \frac{1}{(1 - z^{-1})} \frac{1}{(2z - 0.5)(z - 0.4)}$$

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$$|c| = \lim_{z \to 1} \frac{1}{(1 - 0.5 z^{-1})(1 - 0.4 z^{-1})}$$

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(uil8)= KZ- (05+02Z-)

$$C(8) = \frac{1}{C_{245}(2)} \frac{C_{cc}(2)}{1 - C_{cc}(2)}$$

$$= \frac{(2 - 0.5)(2 - 0.4)}{0.5 ? + 0.2} \frac{1.4286 ? - (0.5 + 0.2)}{(-1.4286 ? - (0.5 + 0.2))}$$

$$= \frac{(2 - 0.5)(2 - 0.4)}{0.5 ? + 0.2} \frac{1.4286}{2^2 - (0.5 + 0.2)} \frac{(-1.4286 ? - (0.5 + 0.2))}{(-1.4286 (0.5? + 0.2))}$$

$$= \frac{(2 - 0.5)(2 - 0.4)}{0.5 ? + 0.2} \frac{1.4286}{2^2 - (0.5? + 0.2)} \frac{(-1.4286 (0.5? + 0.2))}{(-1.4286 (0.5? + 0.2))}$$

$$= \frac{(2 - 0.5)(2 - 0.4)}{(-1.4286 (0.5? + 0.2))} \frac{(-1.4286 (0.5? + 0.2))}{(-1.4286 (0.5? + 0.2))}$$

$$= \frac{(-1.4286 (0.5)(0.5)(0.5 - 0.4)}{(-1.4286 (0.5? + 0.2))}$$

$$= \frac{(-1.4286 (0.5)(0.5)(0.5)(0.5)(0.5)(0.5? + 0.2)}{(-1.4286 (0.5? + 0.2))}$$

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connot be conceled using a causal controller