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(3)

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$$\frac{Y(S)}{P(S)} = \frac{h(S)}{d(S)}$$

condition)

Sufficient
$$S^{n-1} \left(\frac{1}{4} \right)$$
 Q_2 Q_3 Q_5 Q_5

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$$d(s) = s^{4} + 2s^{3} + 2s^{3} + 4s + 3$$

$$s = 1/2$$

$$d(x) = \frac{1}{3}y + \frac{2}{3}z + \frac{2}{3}y + \frac{2}{3}z + \frac{2}{3}z + 1 = 0$$

$$= 3x^{4} + 4x^{3} + 2x^{2} + 2x + 1 = 0$$

$$x^{4} \quad 3 \quad 2 \quad 1$$

$$x^{3} \quad 4 \quad 2$$

$$x^{2} \quad 0.5 \quad 4 \quad =) Two poles in R + S plane$$

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Special case 2

$$d(s) = 5^4 + 35^3 + 65^2 + 125 + 8 = 0$$

Auxilian egg is a facture of d(s)

25+8 A- Aux egu

d/ds (25 +8)



$$2\vec{S} + 8 = 0$$

$$S_{1,2} = 0$$
 $S_{1,2} = \pm j \geq 0$
 $S_{1,2} = \pm j \geq 0$

$$\frac{57557}{57+35^3+125+8}$$

$$35^{3} + 25^{2} + 125$$
 35^{3} (25

$$d(s) = (s^{2}+4)(s^{2}+3s+2)$$

= $(s^{2}+4)(s+1)(s+2)$
 $t_{j2}(s+2)(s+2)$