$$\begin{aligned}
& (Q : \omega)(Z) = ? \\
& (D)(G)(Z) = ? \\
& (D)(G)(Z) = \frac{(CZ)}{R(Z) - CH(Z)} \\
& (D)(G)(Z)(Z) = (I - Z^{-1}) Z \int_{Z} \frac{G_{2}(S)}{S} \\
& = (I - Z^{-1}) \frac{1}{Z} \int_{Z} \frac{G_{2}(S)}{S} \\
& = (I - Z^{-1}) \frac{1}{Z} \int_{(I - Z^{-1})^{2}} \frac{G_{2}(S)}{S} \\
& = \frac{G_{2}(Z)}{(I - Z^{-1})^{2}} \\
& = \frac{G_{2}(Z)}{I - Z^{-1}} \\
& = \frac{G_{2}(Z)}{R(Z) - CH(Z)} \\
& = \frac{G_{2}(Z)}{I - Z^{-1}} \\
& = \frac{G_{2}(Z)}{I - Z^$$

$$\frac{0.005 \, Z^{-1}(H \, Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, Z^{-1}(H \, Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, Z^{-1}(H \, Z^{-1})(I - Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, Z^{-1}(H \, Z^{-1})(I - Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, Z^{-1}(H \, Z^{-1})(I - Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, Z^{-1}(H \, Z^{-1})(I - Z^{-1})}{(I - Z^{-1})^{2}} = \frac{0.005 \, (Z^{2} - I)}{(I + (0.005 \, d - Z))Z^{-1}(I + (0.005 \, d + I))Z^{-1}} = \frac{0.005 \, (Z^{2} - I)}{Z^{2} + I \cdot 0.005 \, d - 2)Z^{2} + I \cdot 0.005 \, d - 2}$$
(b) from $lic_{LC}(Z)$

$$Z^{2} + (0.005 \, d - Z) \, Z + I + I \cdot 0.005 \, d - 2$$

$$Z^{2} + (0.005 \, d - Z) \, Z + I + I \cdot 0.005 \, d - 2$$

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$$Z^{2} + (0.005 \, d$$

(b) 求根公式只等了实根,虚根在单位图内也稳定

$$Z^{2} + (140.005 - 2) + (140.005) = 0$$

$$\Delta = \sqrt{(0.0054 - 2)^{2} - 4 \times 1 \times (140.005)}$$

$$= \sqrt{2.5 \times 10^{-5} \text{d}^2 - 0.01} \times 4 - 4 - 0.02 \times$$

$$=\sqrt{25\times10^{-5}}$$
 2.03

(b) try Jury test
$$\frac{C(z)}{k(z)} = \frac{(i \cdot l_2(z))}{|+ \alpha \cdot l_1(l_2(z))}$$
|et |f\(\frac{0.005 z^{-1}(|+z^{-1})}{(|-z^{-1})^2} = 0

$$(1-z^{-1})^2 + \(\alpha \cdot 0.005 z^{-1} + \ldot 0.005 z^{-2} = 0$$

$$(1-z^{-1})^2 + \(\alpha \cdot 0.005 z^{-1} + \ldot 0.005 z^{-2} = 0$$

$$(1-z^{-1})^2 + \(\alpha \cdot 0.005 z^{-1} + \ldot 0.005 z^{-2} = 0$$

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$$(1-z^{-1})^2 + \(\alpha \cdot 0.005 z^{-1} + \ldot 0.005 z^{-2} = 0$$

$$z^2 + (\ldot 0.005 - 2) z^{-1} + ((1 + \ldot 0.005 z) z^{-2} = 0$$

$$z^2 + (\ldot 0.005 z^{-1} + (1 + \ldot 0.005 z) z^{-2} = 0$$

$$z^2 + (\ldot 0.005 z^{-1} + (1 + \ldot 0.005 z) z^{-2} = 0$$

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$$z^2 + (\ldot 0.005 z^{-1} + (1 + \ldot 0.005 z) z^{-1} z^{-1} z^{-1}$$

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$$z^2 + (\ldot 0.005 z^{-1} + (1 + \ldot 0.005 z) z^{-1}$$

$$z^2 + (\ldo$$

-2 < 0.005 < 0 -1000 -10

(a) others answer
$$\frac{z}{Z-1} = \frac{0.005(1+Z)}{z^2+2z+1+d0.005} + \frac{20.005z}{2^2+1}$$

$$= \frac{0.065(z^2+1)}{(z^2+(0.005d+2)Z} + (1+0.005d)Z$$

$$= \frac{z^3}{(0.005d+2)Z} - (1+0.005d)Z - z^2$$

$$= \frac{z^3}{(0.005d+1)Z^2} - (1+0.005d)$$

$$= \frac{z^3}{(0.005d+1)Z^2} - (1+0.005d)$$

$$= \frac{z^3}{(0.005d+1)Z^2} - (1+0.005d)$$