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$$F(z) = \frac{z+1}{(z-1)(z^2+2z+2)}$$

$$F(z) = \frac{2+1}{z(z-1)(z^2+2z+2)}$$

$$\longrightarrow (-1 \pm j)$$

$$= \frac{\Gamma_{1}}{2} + \frac{\Gamma_{2}}{2-1} + \frac{\Gamma_{3}}{2+1-j} + \frac{\Gamma_{4}}{2+1+j}$$

$$(3 = 2+1)$$
 $(2)(2-1)(2+1+j)$ 
 $= -1+j$ 

$$= \frac{j}{(1+j)(-2+j)(j2)} = \frac{0.05+j0.15}{(1+j)(-2+j)(j2)}$$

$$r_3 = r_4 = 0.05 - j 0.15$$

$$\frac{t(z)}{z} = \frac{-0.5 + 0.4}{z - 1} + \frac{0.05 + j0.15}{(2 + 1 + j)} + \frac{0.05 - j0.15}{z + 1 + j}$$

$$F(2) = -0.5 + 0.42 + (0.05 + j0.15)2 + (0.05 - j0.15)2$$

$$= 2 - (-1 + j)$$

$$= 2 + (-1 - j)$$

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$$\frac{z-0.5+0.42}{z-1} + \frac{(0.05+j0.15)z}{z-\sqrt{2}e^{i3\pi}} + \frac{(0.05-j0.15)}{z-\sqrt{2}e^{i3\pi}}$$

$$\frac{1}{5[n][6]}$$

$$\frac{1}{2-a}$$

$$f[n] = -0.58[n] + 0.4(1)^{n} + (0.05 + j0.15)(Jze^{j3D_{1}n})$$

$$+ (0.05 - j0.15)(Jze^{-j2\pi})^{n}$$

$$= -+ (0.05 - j0.15)(Jze^{-j3\pi})^{n}$$

$$-+ (0.05 - j0.15 - (52) + -j\frac{371}{4} n)$$

$$0.05 \sqrt{2} \cdot \cdot \cdot j0.15 - \sqrt{2} n - - -$$

$$f[n] = -0.58[n] + 0.4 + \sqrt{2} con n31 - 3\sqrt{2} sin n31$$

$$e^{j\theta} + e^{j\theta} = \cos \theta \qquad e^{j\theta} - e^{j\theta} = \sin \theta$$

$$\overline{z}$$