```
Hesapla koloslik olması
   (,a) G(f) = T/20 = 75/1 [f-20] + T/20 = 2 To (f+20)
                                                                                 agisindan Gui Gire Gz
                                                                                 Olarak Oyurdum.
                R(z) = # {6,(p) {+ f {6,(p) {
     R(z) = 56(fle 211ft df U=f-20 okun du=df
     4(z)= To e 12/1/20 Je Jelul j2/1/42
   R(Z)= To e 12/1202 Set e du + Set e du
  R_{1}(z) = \frac{\pi}{20} e^{j2\pi/20 \cdot z} \left[ \int_{e}^{\infty} e^{-\frac{\pi}{4}u} \left( \frac{j2\pi uz}{e + e} \right) du \right]
 R_{1}(z) = \frac{\pi}{20} e^{j2\pi i \cdot 20z} \left( \int_{z}^{\infty} e^{-\frac{\pi}{5}u} \cdot 2 \cdot \cos(2\pi uz) du \right)
                                                                     ¿ Laplace dénvision mondel:
                                                                       Jest costallet = 5 ile
 R_{1}(z) = \frac{\pi}{10} e^{j2\pi \cdot 20 \cdot z} \cdot \frac{\pi}{(\frac{\pi}{2})^{2} + (2\pi)^{2}}
                                                                              benzenliginden
k_2(z) = \int_{2}^{\infty} 6(f)e^{j2\pi fz} = \int_{20e^{5}}^{\infty} \frac{1}{20e^{5}} \int_{20e^{5}}^{\infty} e^{j2\pi (u-20)z} df \left[k(z) \right] dh ypphigranz gibi
                                                                           | u = f+20, du = df
= 17 - 3211.202 (Setue 32/102 & -1/4 j2/102)
=\frac{\pi}{20}e^{-\frac{1}{2}\pi \cdot 20z}\int_{0}^{\infty}\int_{0}^{-\frac{\pi}{5}u}\left(\frac{j2\pi uz}{e}+\frac{-j2\pi uz}{e}\right)^{\frac{1}{2}}
= \frac{11}{20}e^{-j2\pi20z} \left[ \int_{e^{-\pi u}}^{\infty} \left( 2\cos(2\pi uz) \right) \right] Televar laplace donising benzalignes:
= \frac{\pi}{10} = \frac{2\pi 207}{(\pi)^2 + (2\pi 2)^2} = R_2(z) \qquad R(z) = R_1(z) + R_2(z)
```

$$R(z) = \frac{\pi^2}{50} \cdot \frac{1}{\pi^2 [(\frac{1}{4})^2 + (2z)^2]} \left[e^{j2\pi \cdot 20z} + e^{-j2\pi \cdot 20z} \right]$$

$$R(z) = \frac{1}{50} \frac{1}{(\frac{1}{2s}) + 4z^2} \left[2\cos(40z) \right]$$

$$= \frac{1}{2s} \cdot \frac{1}{2s + 4z^2} \cdot \cos(40z) = \frac{\cos(40z)}{1 + 100z^2}$$