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$\frac{1}{u^{2}} \frac{1}{u^{3}} \frac{1}{u^{5}} \frac{1}$
1. U. e - n [ ( n2 - y2 ) cosy + 2 my sin y]
δυ = e <sup>-n</sup> 2 n cosy -e <sup>-n</sup> (n²-y²)cosy δν -e <sup>-n</sup> 2 ny sin y + 2 e <sup>n</sup> y sin y
Dy = e-n(-n² siny + y² siny + 2 mycosy + 2 m siny)
$\frac{\partial u}{\partial u} = 2ze^{-2} - e^{-2}$
$\left(\frac{30}{39}\right)(z,0) = 0$
f'(z) = 2ze = ez
$f(z) = \left(2z - z^2\right)e^{-2}dz$
) - 2 ze 2 - 8 e 2 + 2 e 2 + 8 ze 2 + 8 e 2
$z^2e^{-2}+c$

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COUTOUR integration.

T = 
$$\int_{0}^{\infty} d\theta$$
 $(1+\frac{1}{2} \cos \theta)^{2}$ 

$$\frac{1}{\sqrt{1+\frac{1}{2}(0.0)^2}}$$

$$z = e^{i\theta}$$
 $dz = e^{i\theta} d\theta$ 
 $d\theta = dz$ 

$$I = \int \frac{2dz}{(z^2 + 4z + 1)^2}$$

$$= \int \left(\frac{2z}{z^2 + 4z + 1}\right)^2$$

$$\frac{1}{2} \left( \frac{2}{2} + \frac{2}{4} \right)^{2} = \frac{2}{2}$$

$$\frac{1}{8} \int_{0}^{1} \int_{0}^$$

Now tere poles are given by.

$$= -9 + \sqrt{3}$$

$$\frac{1}{c} \int \frac{1}{(z^2 + 4z + 1)^2} dz$$

$$\frac{1}{(\alpha-\beta)^{2}} - \frac{(\alpha+\beta)}{(\alpha+\beta)^{2}} = \frac{1}{(\alpha+\beta)^{2}} = \frac{1}{($$

$$\int_{c}^{c} f(z) dz = 2\pi i \left(\frac{1}{3}\right) = 2\pi i \left(\frac{1}{3}\right) = 2\pi i \left(\frac{1}{3}\right) = \frac{16\pi}{3}$$

$$\int_{c}^{2} (2 + \cos i)^{2} = \frac{16\pi}{3}$$