No le legal 
$$2 = 1$$

Sint  $(2\pi)$   $= 2 = 1$ 
 $= \frac{1}{(2\pi)} (1 + \frac{(2\pi)}{3!}) + \dots = 2\pi (1 - \frac{(2\pi)}{3!}) + \dots = 2\pi (1 - \frac{(2\pi)}{3!}) + \dots = 2\pi (1 - \frac{(2\pi)}{3!}) + \dots = 2\pi (2\pi) = 2\pi$ 

$$\frac{1}{1} = \frac{1}{1 - 2} = \frac{1}{1 - 2} = \frac{1}{1 - 2} = \frac{1}{1 + 1} = \frac{1}{1 - 2} = \frac{1}{1 - 2} = \frac{1}{1 + 1} = \frac{1}{1 - 2} = \frac{1}{1 - 2} = \frac{1}{1 + 1} = \frac{1}{1 - 2} = \frac{1}{1 - 2} = \frac{1}{1 + 1} = \frac{1$$

1-1+ = + = 1/2 + (2)/3 + ... War 2:0: 2) f(7) = e(2-a) e(a-1) £/=/2-000  $= \frac{a}{2} \left( \frac{c}{(2-a)} \left( 1 - \frac{1}{2} + \frac{1}{4} + \frac{$ , A feather sumo Z= Ettin 7=a: - 2+a+4 - 2 (C) -7 e = e = = = = = (1+ = + ...) (1-=== + ...) uzon. cuktyn.

 $\frac{11 \int_{-\frac{2e^2}{4an^2}}^{\frac{2e^2}{4an^2}} dz = \frac{1}{2} = \frac{\frac{2e^2}{2^2 + 4a^2}}{\frac{2e^2}{3^2}} = \frac{e^2}{2^4 \left(1 + \frac{2^5}{3}\right)} = \frac{e^2}{2^4 \left(1 + \frac{2^5}{3}\right)}$ 

1 => Steel = 1.2 Wi = 1 = 1.2 Ni  $\frac{2}{3} = \frac{2^{2}}{2^{2}} = \frac{1+2+\frac{2^{2}}{2}+...+\frac{2^{n-1}}{(n+1)!}+...}{2^{n}} = \frac{2^{n-1}}{2^{n}}$  $= \frac{2\pi i}{(n-i)!}$   $= \lim_{N \to \infty} \int_{-1}^{\infty} \frac{1}{(x)} dx + \int_{-1}^{\infty} f(x) dx + \int_{-1}^{\infty} f$ 

T

$$\frac{1}{1+\lambda^{1}} = \left[ \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} \right] = \left[ \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} \right] = \left[ \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} \right] = \left[ \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} \right] = \left[ \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} + \frac{1}{1+\lambda^{1}} \right] = \left[ \frac{1}{1+\lambda^{1}} + \frac{$$

$$\frac{1}{2} \frac{\cos 20}{2 \cos 6} = \frac{1}{2} = \frac{1}{2} (2 + \frac{1}{2})$$

$$\frac{1}{2} (2^{2} + \frac{1}{2}) d2 = \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} (2 + \frac{1}{2}) d2$$

$$\frac{1}{2} (2 + \frac{1}{2} (2 + \frac{1}{2})) = \frac{1}{2} \frac{1}$$

L

J= 1+26 JZ ANAMOTURES N.L. TONOLLO  $R = \frac{f(z_0)}{c'(z_0)} = \frac{1}{5} \frac{z_0^5}{z_0^5} = \frac{1}{5}$ Coero 12 boue malo lo Ceptin monocu > 7=BR-2Ni= 12Ni= 2Ni 3 3/1/2 xdx = ) thatker cages and on the

(8

Sin2 xdx = [sin2 xdx - [sin2 xdx] = ] = [sin2 xdx] = [sin  $\frac{1}{2} = \frac{1}{2} \int_{-\frac{1}{2}}^{\frac{1}{2}} \frac{1}{2} \int_{-\frac{1}{2}$ = - \frac{1}{22} \frac{e^{i2x}}{x^2} \frac{1}{2} \frac  $\varphi(0; \overline{\psi})$ = le 3 Hz les tex2 - 2 11 + le 22 les x21 = = = = (1+ =2) I,=V (un. Dupuxre)  $\int = \sqrt{2} \left( 1 + e^{-2} \right)$ 

= 1 8 × eiaxdx - 8 × eiaxdx = 1 Infx eiaxdx = 2 Infx eiaxdx = 2 Infx eiaxdx elas fles de 70 HICM No remul Xopgates tal x e iax dx = 2 Wi ik e iait - Mie-ak => ]= Im Nie ak = We ak Wa, VK: J= The et all Klsgn (a)

$$\int_{-\infty}^{\infty} \frac{x - \sin x}{x^3} dx = \int_{-\infty}^{\infty} \frac{x - \sin x}{x^3} dx = \int_{-\infty}^{\infty} \frac{\sin x}{x^$$

$$\frac{1}{1} = -2\pi i \cdot \frac{e^{-3}}{-6i} = \frac{\pi}{3}e^{-3}$$

$$= 1 - \frac{2}{27} \left( 1 + \frac{4}{2} + (-2)(-3) \cdot \frac{21}{2} + \dots \right) + \frac{1}{2424} \left( 1 + \frac{8}{2} + \dots \right)$$

N12

$$fes(-1) = \frac{f(1)}{g'(1)} = -\frac{1}{2}$$

Reg(s) = 
$$\frac{f(1)}{g'(1)} = -\frac{1}{2}$$

= Res
$$\left(\frac{1}{2}\right)$$
 = £

les (a) = 
$$Ros(\frac{-1}{2^{5}}(1-\frac{1}{2^{2}})) = Ros(\frac{1}{2^{5}}(1+\frac{1}{2^{2}}+1))$$

$$\frac{1}{1-2} \left( \frac{1}{2} - \frac{1}{3!2^3} + \frac{1}{5!2^5} \right) = \left( 1 + 2 + 2^2 \right) \left( \frac{1}{2} - \frac{1}{6^2} + \frac{1}{600} \right)^{\frac{1}{2}}$$

$$\frac{1}{2} = \frac{1}{2} =$$

N(3) = Sin= 12=0

I= g cost - x) dx = Rol g cxp[12- = ] dz J,= gexo[zi-1/2] d2 I,-21/2 Res(2)= Te2

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