Mafle: KGG" 6

17u/y. 1329

Sak a''der die laret-Entwicklung at C, a Ringgebiet om a

a:= { ? & C / S c / ? - a / c / ?

I del aut a

== /(2)= = 6, (2-a) + ZE C

 $\delta_n = \frac{1}{2\pi i} \int \frac{f(\omega)}{(\omega - \alpha)^{m-1}} d\omega$, Screll

a) helde frg. (d,=0 Vn=0)

1) Pol 6-te Ordning (5, -0 + ne-6, 5, 40)

c) beself bug.

Residesa k

Gledel, 8 enlade, slo. dill'Soe, gesell. Kurve

mit 11/8/6 6

/ del. and a(Ea,..., a, ? and a,..., a, m/(x)

I had Pokin as, ... an

= > / f(2)d2 - 211 i 2 res (4, a2)

$$\frac{f_{1}f_{1}B0}{f(2)} = \frac{1}{(2-i)^{2}}, \quad f_{0} - 4ii$$

$$\frac{1}{(2-i)^{2}} = -\frac{0}{0}\frac{1}{(2-i)}$$

$$\frac{1}{g(2)} = -\frac{0}{0}\frac{1}{(2-i)}$$

$$\frac{1}{g(2)} = \frac{1}{2-i} - \frac{1}{1(2-i)} = \frac{1}{1-(-1)(2-20)}$$

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$$\frac{1}{g(2)} = \frac{1}{g(2)} = -\frac{1}{g(2)} = -\frac{1}{g(2-1)^{2}}$$

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$$\frac{1}{g($$

$$\int_{-\frac{\pi}{2}}^{2} (7)^{2} \frac{1}{7-i} = \frac{1}{7-(-1)(7-70)} = \frac{1}{7-70} = \frac{1}{7-(-1)(7-70)} = \frac{\pi}{7-70} = \frac{\pi}{7-70} (-1)^{n} \left(\frac{1}{7-70}\right)^{n} = \frac{\pi}{7-70} \left(\frac{1}{7-70}\right)^{n} = \frac$$

$$f(z) = g'(z) = -\frac{2}{7}(-1)^{n}(-n-1)(2-20)^{-n-2}$$

$$-\frac{20}{7-0}(-1)^{n}(n+1)(2-20)^{-n-2}$$

$$\frac{1}{8m(z)} = (-1)\frac{1}{8in(z-6\pi)} = (-1)^4 \frac{1}{2-6\pi} \frac{z-6\pi}{8m(z-6\pi)} = -g(z)$$

$$g(z) = \frac{1 - \cos(z)}{z^2} \qquad \cos(z) = \frac{z}{z} \frac{(-1)^2 z^2}{(2n)!}$$

$$\frac{f_{a'}}{1 - cos(z)} = 1 - \frac{co}{z} \frac{(-1)^{n}z^{n}}{(z-1)!} = \frac{1}{z^{2}} \frac{co}{(z-1)!} \frac{(-1)^{n+1}}{z^{2n}}$$

$$= \frac{20}{(7n)!} \frac{(-1)^{n+1}}{(7n)!} 2^{2n-2}$$

8 (w) - co cos(w)

- e · ω-20 gm(ω) ω-20 (2+ω) - 2ω cos(ω))

$$\frac{1}{1-7} \cdot e^{-\frac{\pi^{2}}{2}} = -\frac{1}{2-7} \frac{20}{100} \frac{(-1)^{n}}{100} \frac{1}{(2-7)^{n}} \frac{1}{100} \frac{1}{12-1} \frac{13.07}{20}$$

also cossellede by rest

$$= 2 \operatorname{Resichesols} \cdot \int C... \cdot 7 \, dx = \left(\operatorname{Fit} \cdot \overline{\xi} \right) \operatorname{orgentl}. \text{ Resichesols}$$

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$$= 2 \operatorname{Res} \left(\frac{1}{100} \operatorname{Fit} - \frac{1}{100} \right) - 2 \operatorname{Fit}$$

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- ReTTE (a-1 + e-a cos(a))

17/1/2 1334

a) \frac{1}{\sigma^2 + 4\times \sigma^2} da

\[\frac{1}{2\cdot 1/4\times \sigma^2} \frac{1}{2\cdot 1/2\times \sigma^2} \frac

2a"hlegrad & Umrgrad-7 and Polshelle 1. Orchy

= 11