



$$f(z) = \frac{1}{2^{3}(1-z^{2})} = \frac{1}{2^{3}(1-z)(1+z)}$$

$$f(z) = \frac{1}{2^{3}(1-z)}\Big|_{z=-1}$$

$$f(z) = \frac{1}{2^{3}(1+z)}\Big|_{z=-1}$$

f(2) = 23 cos2-2) resfin =? F(2) = 23 (1 - 2(2-2) + 1/4 (2-2) -- res f(2)-C-, = 41 = 24 = 0,04167 1-2 5 (-1) (2-2) 2h 2h! = 23 - 23 + 23 + 23 (2-2) 5.61 t $res (2) = \sqrt{(2) \cdot (2-2)} = \frac{2^{3}(2-2) \cos(\frac{1}{2-2})}{2(2-2)^{2}} = \frac{2^{3}($ = 23 (2-2 - 2(2-2)) / 2->2 $Z^{3} = (2+(2-2))^{3} = 8+12(2-2)+6(2-2)^{2}+(2-2)^{3}$ f(2) = 8(1-2!(2-2)2+...)+12((2-2)-2!(2-2)+...)+ +6((2-2)2-1+1(2-2)24!+..)+(2-2)3-(2-2)+1(2-2) $resf(2)=C_{-1}=-\frac{12}{2}+\frac{1}{24}=\frac{-143}{24}=-5,9583=-resf(3)$

$$\int_{0}^{\infty} \frac{1}{x^{3}} dx = \int_{0}^{\infty} \frac{1}{x^{3$$

1 22+9 = 201. 108/P) = 271 2+31 24 213 - 368 J= 5 COS(X-X) 4X (2) + COS (2-5) 5-5+5= 20, 103 f(2) = 201; 1+2 (37) = \$ Go52; = \$. \$ 2 = \$. \$ 2 e2 I = 2 (x-x) (= 1/x = -4 = -4 = -4 (t = =) - 0 ei(t-1) - 1 + t2 d7 1-25, rest(2) = 26, (2-2) | -26, 2; (1-1) = 20, 2; = 20, 2;

= (24+1) dz = 24i(res + res) = -] 4+5+= 15 -] +5+= 15 22(22+42+1) Z, = 0 - 1 ngangon 9.04-153 Z= 1-2+53/ = 1 5 = -5 +2B. 2 = (-2-53) >1 res = 0/24+1 270 423 (23+45+4) + (54+4) (35+4) = -4 (22+42+1)2 1830 reg = = = = (2+2+53) = 97-5653 = 53-2 (2+2+53) | 2 = 57-5653 = 1 97-5600 14/3-24 () 27 - 56 03 - 4) = 24 (1453 - 5653 + 36) = = \$ (133 - 11253) 1-841 7/3'-12