Univerpera General

The
$$\int_{2}^{2} \frac{1}{|x|^{2}} \frac{1}{|x|^{2}}$$

 $=\int_{0}^{1}u^{2}(1-u)^{5/2}\cdot\frac{du}{2\pi}=\frac{1}{2}\int_{0}^{1}u^{2}(1-u)du=\frac{1}{2}B\left(\frac{5}{2}\frac{7}{2}l_{2}\right)=\frac{1}{2}\frac{\Gamma(5/2)\Gamma(7/2)}{\Gamma(6)}=$

3aganue 2.

Coxub. unu-nu, 30becoevre ou nepa vempa.

f(x,t) unt no Purery sea x e[a, B] Ha e N

soluted)

(1) rece no maper many

Mycun fly, of rung. The rungyon. 17 = ha = x & B, A < d & B} P(4) = [f(x,4) dx neve no & c(A,B)

No. Hezur: poult++xidx = [(cu 1/4d2xi)dx = 1 4x La f(x,d) mens.

2 unioque de napriment

Byour f(K, +) moup our n-ha < x < b A < x < B } Long Blfgt(x4) 9x399=] (] f(x4) 97 } 9x

. comprenence being menero senos meses mos

$$\int_{1}^{2} dx \int_{1}^{2} \frac{(x_{1} + x_{1})^{2}}{(x_{1} - x_{2})^{2}} dx + \int_{1}^{2} dx \int_{1}^{2} \frac{(x_{1} + x_{1})^{2}}{(x_{1} - x_{2})^{2}} dx$$

6-0 1(K'q)= (1,+K,) (0,0) .m J. Bren. ele en

Moberne.

 $=\frac{1}{1}\int_{-\infty}^{\infty} (1-4\lambda_{1}f)\cos_{3}fqf = \frac{1}{1}\int_{-\infty}^{\infty} \cos_{3}fqf = \frac{1}{1}\int_{-\infty}^{\infty} (1-4\lambda_{1}f)\cos_{3}fqf = \frac{1}{1}\int_{-\infty}^$

Sin2x- 269x; Sin2uncy 1 = 2-1/4 = 2 = 2x

10Ma Jarlt(x, a) qx - Jax = ardy 1-ardy0 = 5/4

3 Duoque no nepresenty

Royu Pal= If (x,a)dx rows. good. run [a, 2]

92, 155 (xx)qx : 9 ((xx)qx = 15) (xx)qx

TG. I(d)=] Ru(d2-5,00)da

Lussen remission 43 2 2 5/12 (3 2 x2 - 1 d27, lu(22-5:126) 7, lu(22-1)

4mo, ecun d=1: [en(1-5:12)de =

=1 I(1)-coSul

-> upu d=1 cx necoscul. wom.

nou de 1 00-0 re apregenteur ru [0,72]

Baracian I(2) um x>1

I(4) = \[\frac{1}{5\cdot \frac{1}{5} \cdot \fra $=\int_{0}^{2} \frac{2x}{2^{2}+1^{2}\sqrt{2^{2}-4^{2}}} = \int_{0}^{2} \frac{2x}{1^{2}+4^{2}(d^{2}-4)} dt = \frac{2x}{2^{2}-1} \int_{0}^{2} \frac{d^{2}-4}{d^{2}-4^{2}} = \frac{2x}{2^{2}-1} \int_{0}^{2} \frac{d^{2}-4}{d^{2}-4^{2}} dt = \frac{2x}{2^{2}-1}$ Jat 2= farcy & + C = 12. 2 - 12. 7, x >1

I(d)= Eln(d+ 12-1)+C, d>1

Nale merine Co

I(d) = 5 and +5 an (1+ 11-1/2) + C

=1 (Du (I(d)-50rd)=50r2+C

I(4)= [(5809+ (v(1-2/1/10))96= = 6249+] EN (1- 5/15/4) 96

moro: $I(1) = E \cdot 6v \frac{4 \cdot 4v_{5-1}}{4^{5}}$ 4>1 $|v(v - \frac{v_{5}v_{5}}{4^{5}}| \in |v(v - \frac{4}{5^{5}v_{5}}v_{5}) \in 0$ $|v(v - \frac{v_{5}v_{5}}{4^{5}}| \in |v(v - \frac{4}{5^{5}v_{5}}v_{5}) \in 0$ $|v(v - \frac{v_{5}v_{5}}{4^{5}}| \in |v(v - \frac{4}{5^{5}v_{5}}v_{5}) \in 0$ $|v(v - \frac{v_{5}v_{5}}{4^{5}}| \in |v(v - \frac{4}{5^{5}v_{5}}v_{5}) = 0$ $|v(v - \frac{v_{5}v_{5}}{4^{5}}| \in |v(v - \frac{4}{5^{5}v_{5}}v_{5}) = 0$

Ecan 4 -> 1 20 < war une reperoy ere observedoor