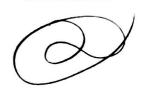
$f_{C} = 4\pi \int r^{2} \frac{S_{n}(cr)}{S_{n}(cr)} \frac{dr}{dr}$ $N(r) = (\pi a_{o})^{-1} \frac{e^{-2r}}{e^{-2r}}$ Sc= 4x frsin(Gr)e ac dr GHas 1e+ A=Gr 1=26 dA=Gdr $= \frac{4}{6a^{3}} \int \mathcal{X}_{S,n}(\mathcal{R}) e^{-\frac{2\pi}{6a}} dx$ $= \frac{4}{6a^{3}} \int \mathcal{X}_{S,n}(\mathcal{R}) e^{-\frac{2\pi}{6a}} dx$ $= \frac{4}{6a^{3}} \int \mathcal{X}_{S,n}(\mathcal{R}) e^{-\frac{2\pi}{6a}} dx$ $= \frac{2\pi}{6a^{3}} \int \mathcal{X}_{S,n}(\mathcal{R}) e^{-\frac{2\pi}{6a}} dx$ $= \frac{2\pi}{6a^{$ Tet u= cosca di cas di = 500 | sac sull can + sac [-sac colleta + cao | sulx equall



(Ga + (-3a)) SM(x) (can dx = 4 sin(x) (can - 3 coux) (coux) Ego S, n(4) equidx = e Gao [620, S, N(x) + 630, C(s)(x)] = - 6 ac [G ac S, n(x) + 6 ac (s/s)] $= 7 \int \chi \cos(x) e^{\frac{2\pi}{3}} dx = -\frac{Ga_0}{3} \chi \cos(x) e^{\frac{2\pi}{3}} - \frac{Ga_0}{3} \int \cos(x) e^{\frac{2\pi}{3}} dx$ $= 7 \int \cos(x) e^{\frac{2\pi}{3}} dx \qquad |et \quad U = (o)(t) \rangle \qquad dv = e^{\frac{2\pi}{3}} dx$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} - \frac{Ga_0}{3} \int \sin(x) e^{\frac{2\pi}{3}} dx$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} - \frac{Ga_0}{3} \int \cos(x) e^{\frac{2\pi}{3}} dx$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} + \frac{Ga_0}{3} \int \cos(x) e^{\frac{2\pi}{3}} dx$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} + \frac{Ga_0}{3} \int \cos(x) e^{\frac{2\pi}{3}} dx$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} dx - \frac{Ga_0}{3} \cos(x) + \frac{Ga_0}{3} \cos(x)$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} dx - \frac{Ga_0}{3} \cos(x) + \frac{Ga_0}{3} \cos(x)$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} dx - \frac{Ga_0}{3} \cos(x) + \frac{Ga_0}{3} \cos(x)$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} dx - \frac{Ga_0}{3} \cos(x) + \frac{Ga_0}{3} \cos(x)$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} dx - \frac{Ga_0}{3} \cos(x) + \frac{Ga_0}{3} \cos(x)$ $= -\frac{Ga_0}{3} \cos(x) e^{\frac{2\pi}{3}} \cos($ =7 Golo (c)(x) (saudx = sau [-Gao (cxx) + 25 m(x)]



- Gar / XSINXI e Gardx = (3a) X5,n(x) (2a) - 0 (45,n(x) +2 coxx) = 2 (-6a) (-6a) (x) (x) + 6 a. [6 a. coso+ 2 2 mg - Ear XS,neweredx7 - Ga, N, Nx, Etc. - etc [45, 11(x) + 200(x)] + Ga, C x(x)(x) + C [4762002] - Cao [x5, n(x) etc. s) - 1+Ga Gas XS, N(x) & - e - 20 = 4 + cas 9 and X(09(x) + 450 and 4+60 and Ear Gar XS.n(x) - Caros,n(x) + Lasce(x) - 620 xs.n(x) e dx = eEao [= 25,n(x) - Ea. 5,n(x) + It, (ax) = Eac x(s(x) + o conversions 1 + 6000

Sinthe dx = [= 0x [26 a 25, 164 - (4+6-4) 2 - 6 a 2 X(0160) \[\frac{446-40}{446-40} = \frac{46-240}{(4+6-40)^2} = \frac{40^2 \text{X(0160}}{(4+6-40)^2} = \frac{40^2 \text{X(0160)}}{(4+6-40)^2} = \frac + 63a3(os(x)+ 6a S,n(x) 7) 100 - Eas + Eas (4+624)2 + Eas (4+624)2 = 4 (4+(2a3) $\frac{4}{\epsilon^{\frac{3}{4}}a^{\frac{3}{4}}} \left\{ s_{,n}(x)e^{\frac{-2x}{4}a} dx = \frac{16}{(u+\epsilon^{\frac{3}{4}}a^{\frac{3}{4}})} \right\}$