$$\frac{1 - A + B}{0 - A + B}$$

$$i - I = \int -\frac{1}{2} \left(\cos x - \sin x \right) + \frac{1}{2} \left(\sin x + \cos x \right) dy$$

(2)

$$20 = 20A + 16B$$

-.
$$F = \int \frac{9}{91} \left(5 \cos x - 4 \sin x \right) + \frac{40}{91} \left(5 \sin x + 4 \cos x \right) dx$$

$$T = \int \frac{1+8 \cos x}{3 \cos x} dx$$

(W.5-6) Soln. (3) Sinn + 8 (an = A.d. (3can + 251nn) + B (3can + 251nn)d Simy + 8 (ax = A(-351nx + 2(ax) +B(3(ax+25mx) eluan Cofficier y Sinn Ecan $1 = -3A + 2B \times 2$ $8 = 2A + 3B \times 3$ 2- -6A + 4B 24 - 6/A + 9B B = 2 A = 1 $\frac{1}{3} = \int \frac{(-35m\pi + 2cd\pi)}{3cd\pi + 25m\pi} + 2(3cd\pi + 25m\pi) d\pi$ $= \int \frac{-35in\pi + cd\pi}{3cd\pi + 25in\pi} d\pi + 2\int d\pi$ PW- 3cax + 2sinx =+ (-3sinx +2cax) dn= d4 I = folt + 2x I=109 | 3 COLX + 25777 | +2x+C AMS 0~114 + I= / Sinx-cax an I= / Sinx-colx dy

 $= \int \int \frac{1}{1-1+\sin(2\pi)}$ $= \int \frac{\sin^2 x + \cos x}{\sqrt{(\sin^2 x + \cos^2 x + 2\sin x \cos x)} - 1}$

$$T = \int \frac{\sin x - (\alpha x)}{\sqrt{(\sin x + (\alpha x)^{2} - 1)}} dx$$

$$\int \frac{\cos x}{\sqrt{(\sin x + (\alpha x)^{2} - 1)}} dx = dt$$

$$\int \frac{\cos x}{\sqrt{(\sin x + (\alpha x))}} dx = -dd$$

$$T = -\int \frac{\partial t}{\sqrt{t^{2} - 1}} dx$$

$$T = -\log \left| \left(\sin x + (\cos x) + \sqrt{(\sin x + (\alpha x)^{2} - 1)} \right| + C$$

$$T = -\log \left| \left(\sin x + (\cos x) + \sqrt{(\sin x + (\alpha x)^{2} - 1)} \right| + C$$

$$T = -\log \left| \left(\sin x + (\cos x) + \sqrt{(\sin x + (\alpha x)^{2} + 2\sin x \cos y + 1)} \right| + C$$

$$T = -\log \left| \left(\sin x + (\cos x) + \sqrt{(\sin x + (\alpha x)^{2} + 2\sin x \cos y + 1)} \right| + C$$

$$\int \frac{\sin x + (\cos x)}{\sqrt{\sin x}} dx$$

$$T = \int \frac{\sin x + (\cos x)}{\sqrt{\sin x}} dx$$

$$T = \int \frac{\sin x + \cos x}{\sqrt{\sin x}} dx$$

$$T = \int \frac{\sin x + \cos x}{\sqrt{(\cos x)^{2} + (\cos x)^{2}}} dx$$

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(4)

(m.2 = 2) 2014 you (2) $\Gamma = \int_{\Sigma} \int \frac{\sin \pi + \cos \pi}{\sqrt{1 - (\sin \pi - \cos \pi)^2}} d\pi$ Put Sinn-cax=t
(cax+sinx)dn=dt $I = \sqrt{2} \int \frac{dt}{\sqrt{1-t^2}}$ = VI Sin'(t) + (I = 12 51 (SINN-(CUX) + C. ANI $\frac{0 \times 16}{5 \times 1} + T = \int \frac{1}{(51 \times 1 - 2 \cos x) \left(251 \times 1 + \cos x\right)}$ $T = \int \frac{1}{2 \sin^2 x} + \sin x \cos x - 4 \sin x \cos x - 2 \cos^2 x$ = | - 25n²x - 2ca²x - 35inx(ax divide by caru I= Sec24 dx
2 for24 - 2 -3forx Put tenn=+ => Secondu=d4

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$$T = \frac{1}{2} \int \frac{dt}{(t - \frac{7}{4})^2} - (\frac{5}{4})^2$$

$$= \frac{1}{2} \times \frac{1}{d^2 \times \frac{5}{4}} \log \left| \frac{t - \frac{7}{4} - \frac{5}{4}}{t - \frac{7}{4} + \frac{5}{4}} \right| + C$$

$$= \frac{1}{2} \log \left| \frac{4t - 8}{4t + 1} \right| + C$$

$$= \frac{1}{2} \log \left| \frac{3t - 4}{4t + 1} \right| + C$$

$$= \frac{1}{2} \log \left| \frac{3t + 4}{4t + 1} \right| + C$$

$$= \frac{1}{2} \log \left| \frac{3t + 2}{3t + 1} \right| + C$$

$$= \frac{1}{2} \log \left| \frac{t - 2}{3t + 1} \right| + C$$

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$$T = \int (t+1)^2 -1$$

Onis +
$$I = \int \frac{Cay}{Cos(34)} dx$$

$$F = \int \frac{\cos x}{4\cos^3 x} - 3\cos x$$

divide by cain

$$F = \int \frac{dt}{4-3(1+t^2)}$$

$$=\int_{-3t^2}^{2t}$$

$$T = \frac{1}{2\sqrt{3}} \log \left| \frac{1+\sqrt{3}}{1-\sqrt{3}} \right| + C$$

$$F = \frac{1}{2\sqrt{3}} \log \left| \frac{1+\sqrt{3}}{1-\sqrt{3}} \right| + C$$

$$DNI = \frac{1}{2\sqrt{3}} \log \left| \frac{1+\sqrt{3}}{1-\sqrt{3}} \right| + C$$

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$$= (\log x)^{2}$$

$$= -2 \left[-\frac{O(c_1(20))}{L} + \frac{Sm(20)}{4} \right] + C$$

$$= \frac{1}{2} \cos^3 x \cdot x - \frac{\sqrt{1-\alpha^2/20}}{2} + C$$

$$= \frac{1}{2} x \cos^3 x - \frac{\sqrt{1-n^2}}{2} + C \xrightarrow{Ans}$$

$$\frac{D_{AS}}{I} = \frac{1}{4} x + \frac{1}{2} = \int \frac{x^2 S_1 n^3 y}{(1-x^2)^{3/2}} dn$$

$$f = \int \frac{x^2 S_1 n^3 y}{(1-x^3)^{3/2}} dn$$

$$f = \int \frac{x^2 S_1 n^3 y}{(1-x^3)^{3/2}} dn$$

$$f = \int \frac{S_1 n^3 + c}{(1-x^3)^{3/2}} dn$$

$$f = \int \frac{S_1 n^2 + c}{(1-x^3)^{3/2}} dn$$

$$f = \int \frac{S_1 n^2$$

$$\int_{-\infty}^{\infty} \frac{1}{\sqrt{1-\eta^2}} - \frac{1}{(\eta^2)^2} + \frac{1}{2} \log |1-\eta^2| + C \quad \text{And} \quad ONIS \rightarrow F = \int \frac{\pi \tan^2 \eta}{(1+\eta^2)^{3/2}} d\eta$$

$$\int_{-\infty}^{\infty} \frac{1}{\sqrt{1-\eta^2}} \int_{-\infty}^{\infty} \frac{1}{\sqrt{1+\eta^2}} d\eta$$

$$\int_{-\infty}^{\infty} \frac{1}{\sqrt{1+\eta^2}} d\eta = \int \frac{$$

$$I = \frac{1}{2} \int \mathcal{A} \left(Sin(3\mathcal{A}) + Sin(-\mathcal{A}) \right) d\mathcal{A}$$

$$I = \frac{1}{2} \int \mathcal{A} \left(Sin(3\mathcal{A}) - Sin\mathcal{A} \right) d\mathcal{A}$$

$$I = \frac{1}{2} \int \mathcal{A} \left(Sin(3\mathcal{A}) - Sin\mathcal{A} \right) d\mathcal{A}$$

$$I = \frac{1}{2} \int \mathcal{A} \left(-\frac{cos(3\mathcal{A})}{3} + cos(3\mathcal{A}) + cos($$

$$I = \left[\frac{\log_{N} \cdot \left(\frac{\gamma^{2} + \gamma}{2} + \gamma\right) - \left(\frac{\gamma}{2} + 1\right) d\gamma}{\left(\frac{\gamma^{2} + \gamma}{2} + \gamma\right) \log_{N} - \left(\frac{\gamma^{2} + \gamma}{2} + \gamma\right) + C}\right] Am($$