SOLU TIONS

WORKSHEETNO: 11

(class No-14)

INTEGRATION

$$I = \int_{-1}^{3/2} \frac{\sin(3-x) - \cos(3-x)}{1 + \sin(3-x)} \frac{dn}{(3-x)} \frac{dn}{(3-x)} = \frac{(PD)}{1 + \sin(3-x)}$$

$$2I = \int_{0}^{\pi/2} \frac{dy}{1 + \sin x \cos y}$$

$$\frac{Q_{M}}{2} = \int_{0}^{\pi} \frac{e^{\cos x}}{e^{\cos x}} dx$$

$$I = \int_{0}^{\pi} \frac{e^{c\alpha y}}{e^{c\alpha y} + e^{-c\alpha y}} - - - C$$

$$F = \int_{0}^{\pi} \frac{e^{(\alpha(\pi-\pi))}}{e^{(\alpha(\pi-\pi))} + e^{(\alpha(\pi-\pi))}} dn - - \cdot (PD)$$

$$T = \int_{0}^{2} \frac{e^{-c\alpha x}}{e^{-c\alpha x}} dx - - 0$$

$$U(1)$$

$$2T = \int_{0}^{2\pi} \frac{e^{c\alpha x}}{e^{-c\alpha x}} dx$$

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$$T = \int_$$

$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \operatorname{Sm}(\partial t) \cdot \log(t \operatorname{cod} x) du$$

$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \operatorname{Sm}(2t) \cdot \log(t) du$$

$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \operatorname{sin}(2t) \cdot \log(t) du$$

$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \log(\frac{1-x}{x}) du - \int_{0}^{\pi/2} \operatorname{sin}(2t) du$$

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$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \log(\frac{1-x}{x}) du$$

$$\frac{\partial}{\partial t} = \int_{0}^{\pi/2} \log(1-x) du$$

 $T = \sqrt{\frac{3/2}{1 + 5n^2 \pi}} \frac{dn}{dn}$ $I = \int_{0}^{3/2} \frac{5in^{2}(3-4)}{1+sin(3-4)} dn - -$ I= 1 7/2 (032 x) dn - - - (2) 1+can.5122 Sin2n+ (as2n dy 1 +Sina. can Sec24 1+ten2x + tenx dt when x=0; t=0when $x=\eta_2$; $t=\infty$

$$2I = \int_{0}^{\infty} \frac{1}{(4+\frac{1}{2})^{2} + (5)^{2}}$$

$$2I = \frac{2}{\sqrt{3}} \left(\frac{1}{4} + \frac{1}{\sqrt{3}} \right) \int_{0}^{\infty}$$

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$$dF = A \int_{0}^{1} \frac{1-5ny}{ca^{2}n} dn$$

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$$dF =$$

$$\frac{\partial I}{\partial I} = \frac{\partial}{\partial I} \int_{1+\tan^{2} y_{1}}^{3/2} \frac{dy}{1+\tan^{2} y_{1}} + \frac{1-\tan^{2} (y_{1})}{1+\tan^{2} (y_{1})}$$

$$\frac{\partial I}{\partial I} = \frac{\partial}{\partial I} \int_{1+\tan^{2} y_{1}}^{3/2} \frac{dy}{1+\tan^{2} (y_{1})}$$

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$$\frac{\partial \mathcal{I}}{\partial t} = -\frac{\pi}{\partial t_{2}} \times \mathcal{A} \log \left(x_{2} - 1 \right)$$

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$$T = \int_{0}^{3/2} d\log (\cos x) - \log (\cos x) dy$$

$$T = \int_{0}^{3/2} \log (\cos^{2} x) - \log (\sin (2x)) dy$$

$$T = \int_{0}^{3/2} \log (\frac{\cos^{2} x}{\sin (2x)}) dy$$

$$T = \int_{0}^{3/2} \log (\frac{\cos^{2} x}{\sin (2x)}) dy$$

$$T = \int_{0}^{3/2} \log (\frac{\cos^{2} x}{2 \sin x \cos x}) dy$$

$$T = \int_{0}^{3/2} \log (\frac{\cot (3/2 - x)}{2}) dx - - (9)$$

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$$T = \int_{0}^{3/2} \log (\frac{\cot x}{2}) dx - - (9)$$

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$$T = \int_{0}^{3/2} \frac{1}{1 + \sqrt{\cot x}} dx$$

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$$T = \int_{0}^{3/2} \frac{\sqrt{\cot x}}{\sqrt{\cot x}} dx - - (D)$$

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$$T = \int_{0}^{3/2} \frac{1 + \sqrt{\cot x}}{\sqrt{\cot x}} dx$$

$$T = \int_{0}^{3/2} \frac{\sin^{n}(\frac{3}{2} - x)}{\sin^{n}(\frac{3}{2} - x)} dx - \frac{1}{2}$$

$$T = \int_{0}^{3/2} \frac{\cos^{n}(x)}{\cos^{n}(x)} + \cos^{n}(x)$$

$$O + (2)$$

$$\partial T = \int_{0}^{3/2} \frac{\sin^{n}x}{\cos^{n}x} + \cos^{n}x$$

$$\int_{0}^{3/2} \frac{\sin^{n}x}{\cos^{n}x} + \cos^{n}x$$

$$\frac{Q_{M-1/2} + P}{I} = \int_{0}^{\pi/2} \frac{\pi S_{1} n_{1} c_{1} \alpha_{1}}{S_{1} n_{1} + (\alpha_{1} n_{1})} dn$$

$$I = \int_{0}^{\pi/2} \frac{\pi S_{1} n_{1} c_{1} \alpha_{1}}{S_{1} n_{1} + (\alpha_{1} n_{1})} dn - --0$$

$$I = \int_{0}^{\pi/2} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} dn - --0$$

$$I = \int_{0}^{\pi/2} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} dn - --0$$

$$I = \int_{0}^{\pi/2} \frac{(3-\pi)}{C\alpha_{1} (3-\pi)} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} dn - --0$$

$$I = \int_{0}^{\pi/2} \frac{(3-\pi)}{C\alpha_{1} (3-\pi)} \frac{(3-\pi)}{S_{1} n_{1} (3-\pi)} dn - --0$$

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$$I = \int_{0}^{\pi/2} \frac{(3-$$

pivide NED by cary

pur ten n=+ Iten y fec2 y du = dt

tenx sectudn= dt

Inher
$$x=0$$
; $t=0$
 $x dx = ct$ when $x=3$; $t=\infty$
 $y dx = ct$

$$2F = 24 \int_{0}^{\infty} \frac{dt}{t^2 + 1}$$

$$2 = 2 \left(+ \sin^2 t \right)^{\infty}$$