(1) EINIZH Pr MANNIER RE MA (1101) A- MEIXISH (1)

ULTIMATE MATHEMATICS: BY AJAY MITTAL

CHAPTER: TINTEGRATION:

CLASS NO: 13

DEFINITE INTEGRATION

(1)
$$\int_{a}^{b} f(x) dx = \left(g(x)\right)_{a}^{b} = g(b) - g(a) = \operatorname{Def}_{1} m \text{ walue}$$

$$\frac{|\beta_{\alpha \alpha_{1}}|^{2}}{|\beta_{\alpha \alpha_{1}}|^{2}} \left(\frac{|\beta_{\alpha}|^{2}}{|\beta_{\alpha}|^{2}} + 1|\beta_{\alpha}|^{2} + \left(\frac{|\beta_{\alpha}|^{2}}{|\beta_{\alpha}|^{2}} + 1|\beta_{\alpha}|^{2}\right) + \left(\frac{|\beta_{\alpha}|^{2}}{|\beta_{\alpha}|^{2}} + 1|\beta_{\alpha}|^{2}\right)$$

Bair
$$T = \int_{1}^{2} \frac{\chi^{2}}{\chi^{2}+1} d\eta$$

 $pw \quad x^2 + 1 = t$ ydy = dt

limits change
when
$$x=1$$
 = 1 $t=2$
when $x=2$ = $t=5$

$$T - \frac{1}{2} \int \frac{dt}{t}$$

$$= \frac{1}{2} (\log |t|)^{5}$$

$$= \frac{1}{2} (\log |t|)^{2} = \frac{1}{2} \log (5k) dm$$

$$\frac{2}{2} \int_{0}^{2} \int_{0}^{2} \sin(2\pi) for^{2}(\sin \pi) d\pi$$

$$\frac{1}{2} \int_{0}^{2} \int_{0}^{2$$

Ons: 2+
$$T = \int_{0}^{3/4} \frac{\sin \pi + \cos \pi}{9 + 16 \sin(2\pi)} d\pi$$

$$T = \int_{0}^{3/4} \frac{\sin \pi + \cos \pi}{9 + 16 (1 - (1 - \sin(2\pi)))} d\pi$$

$$T = \int_{0}^{3/4} \frac{\sin \pi + \cos \pi}{9 + 16 (1 - (\sin(2\pi)))} d\pi$$

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$$\begin{array}{lll}
\frac{\partial \mathcal{L}}{\partial x} & \mathcal{L} = \int_{a_{1}}^{a_{1}} e^{ay} \left(\frac{1-\sin y}{1-\cos y} \right) dy \\
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$$\begin{array}{lll}
-1 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\
& = \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\
& = \frac{1}{2} & \frac{1$$

Let
$$\frac{1}{(1+y)(1+y)} = \frac{A}{1+y} + \frac{B}{1+y}$$
 $1 = A(1+y) + B(Hy)$
 $0 = 4A + B$
 $1 = A + B$

$$T_{1} = \begin{bmatrix} -\frac{1}{2} & | +\frac{9}{2} & | +\frac{9}{$$

$$\begin{array}{lll}
Q_{NL}|_{0} + & \int_{0}^{2} \int_{0}^{2} e^{2} \cdot \sin(2+\frac{\pi}{4}) dy \\
I &= \left(\sin(2+\frac{\pi}{4}) \cdot e^{-\frac{\pi}{4}}\right)^{2n} - \frac{1}{2} \int_{0}^{2} \cos(2+\frac{\pi}{4}) \cdot e^{-\frac{\pi}{4}} dy \\
I &= -\frac{1}{2} \cdot e^{2n} - \frac{1}{2} \cdot -\frac{1}{2} \left[\cos(2+\frac{\pi}{4}) \cdot e^{-\frac{\pi}{4}} \right]^{2n} + \frac{1}{2} \sin(2+\frac{\pi}{4}) e^{-\frac{\pi}{4}} dy \\
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot -\frac{1}{2} \left[-\frac{1}{2} \cdot e^{-\frac{\pi}{4}} \right] - \frac{1}{2} \cdot I$$

$$\begin{array}{lll}
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot -\frac{1}{2} \cdot \left[-\frac{1}{2} \cdot e^{-\frac{\pi}{4}} \right] - \frac{1}{2} \cdot I$$

$$\begin{array}{lll}
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot \frac{1}{2} \cdot \left[-\frac{e^{2n}}{\sqrt{L}} + \frac{1}{2} \cdot \frac{1}{2} \right]$$

$$\begin{array}{lll}
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot \frac{1}{2} \cdot \left[-\frac{e^{2n}}{\sqrt{L}} + \frac{1}{2} \cdot \frac{1}{2} \right]$$

$$\begin{array}{lll}
I &= -\frac{1}{2} \cdot \frac{1}{\sqrt{L}} \cdot \left[-\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \right]$$

$$\begin{array}{lll}
I &= -\frac{1}{2} \cdot \frac{1}{\sqrt{L}} \cdot \left[-\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot \frac{1}{2}$$

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I &= -\frac{1}{2} \cdot \frac{1}{\sqrt{L}} \cdot \left[-\frac{e^{2n}}{\sqrt{L}} - \frac{1}{2} \cdot \frac{1}{2}$$

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I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{\sqrt{L}} \cdot \frac{1}{\sqrt{L}} \cdot \frac{1}{\sqrt{L}} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\begin{array}{lll}
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{\sqrt{L}} \cdot \frac{1}{\sqrt{L}} \cdot \frac{1}{\sqrt{L}}$$

$$\begin{array}{lll}
I &= -\frac{e^{2n}}{\sqrt{L}} - \frac{1}{\sqrt{L}}$$

$$\begin{array}{lll}
I &= -\frac{e^{$$

MORKSHEET NO= 10 (Class No= 13) (DEFINITE INTEGRALS)

$$\frac{ONE_{1}}{ONE_{2}} \int_{0}^{N_{1}} \frac{1}{2 + n^{3}x} \, dx \quad ANS = 1 - 109 \, 2$$

$$\frac{ONE_{2}}{ONE_{2}} + \int_{0}^{N_{1}} \frac{1}{x^{2}} \, dx \quad ANS = 1$$

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$$\frac{ONE_{2}}{ONE_{2}} + \int_{0}^{N_{1}} \frac{1}{x^{2}} \, dx \quad ANS = 2 \cdot 109 \, (\frac{2}{3})$$

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$$\frac{ONE_{2}}{ONE_{2}} + \int_{0}^{N_{1}} \frac{1}{x^{2}} \, dx \quad ANS = 9$$

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$$\frac{ONE_{2}}{ONE_{2}} + \int_{0}^{N_{1}} \frac{1}{x^{2}} \, dx \quad ANS = \frac{7}{3}$$

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