Quiz 01

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Section: 09

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Ans to the QNO: 03

$$\Rightarrow \frac{dn}{dn} = -2\sin(2n) \Rightarrow \int 1.dn = \int e^{n} dn$$

$$-i.dn = -2\sin(2n)dn$$

$$\frac{du}{dn} = 2C_{0}(2n) \implies \int 1. du = \int e^{n} dx.$$

$$\frac{du}{dn} = 2C_{0}(2n) dn \qquad v = e^{n}$$

$$= e^{n} C_{0}(2n) + 2 \int \int \sin(2n) e^{n} - \int e^{n} C_{0}(2n) dx.$$

$$= e^{n} C_{0}(2n) + 2 \sin(2n) \cdot e^{n} - 2 \int e^{n} 2C_{0}(2n) dx.$$

$$= e^{n} C_{0}(2n) + 2e^{n} \sin(2n) - 4 \int e^{n} C_{0}(2n) dx.$$

$$= e^{n} C_{0}(2n) + 2e^{n} \sin(2n) - 4 \int e^{n} C_{0}(2n) dx.$$

$$\Rightarrow I + 4I = e^{n} (C_{0}(2n) + 2\sin(2n)).$$

$$\Rightarrow \int I = e^{n} (C_{0}(2n) + 2\sin(2n)).$$

$$\Rightarrow \int I = e^{n} (C_{0}(2n) + 2\sin(2n)).$$

$$= \int I = e^{n} [C_{0}(2n) + 2\sin(2n)] + C_{0}(2n) + C_$$

Ssin3n Coondu.

$$\Rightarrow \int -C_{s} g(n) (C_{s} g(n) - 1) \cdot Sin(n) \cdot dn$$

let,

$$\Rightarrow \frac{d\alpha}{dn} = -Sinn$$

Then,

Jsin3n Cesondu.

$$=\int u^{9}\left(u^{2}-1\right) d\alpha.$$

$$= \frac{\omega^{12}}{12} - \frac{\omega^{10}}{10} + C$$

$$=\frac{C_{0}1^{2}(n)}{10}-\frac{C_{0}1_{0}(n)}{10}+C.$$

$$=\frac{1}{2}\left[\frac{1}{6}\left(\frac{1}{2}\right)-\frac{1}{5}\left(\frac{1}{2}\right)-\frac{1}{5}\left(\frac{1}{2}\right)\right]+C.$$

(Aus)

As do the ONO:01.

SCot-1 nd. let, SCJ-1 nder. = Cet-1 n/1. dn- S. [da Cet-1n/ 1dn] dn. = nCet-1n- \[\begin{align*} -\frac{1}{1+n^2} & \text{n} & \text{dn} \end{align*}. $= n \cdot cal - 1 \cdot n + \int \frac{n}{1 + n^2} dn!$ =n Cot $1n+\frac{1}{2}\int \frac{2n}{1+n^2} dn$. $=nC_{1}-1n+\frac{1}{2}ln(1+n^{2})+0$. encettut 1 In(1+n' J'est-Indn=nCst-In+ 1 ln(1+h2)+C.

$$= \frac{1}{1} \frac{$$