46) SSinsnesondu. = Singreson Sinnen = S(Sin2n) Coosen Sinndy. = S(1-Con2n)2 Con Sirnder. Set, u = Coon Then, $\frac{du}{dn} = -Sinn$ Sinn du = -du.

Now,

Sinsu Cosendu = \int(1-Con2n)^2 Cosen Sinendu.

=\int(1-u^2)^2 u^6 dese. (-1) du.

$$=-\int (1-u^2)^2 u^2 du$$
.

$$= \int [1-2u+u^2]$$

$$= -\int [(1)^{2} - 2.1.u^{2} + (u^{2})^{2}] u^{2} du$$

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$$= -\left[\frac{1}{7}u^{7} - \frac{2}{9}u^{9} + \frac{1}{11}u^{11}\right] + C$$

 $= -\left[\frac{1}{7}\cos^{2}x - \frac{2}{9}\cos^{2}x + \frac{1}{11}\cos^{11}x\right] + C.$ (Am)