Sin (hu.t) 37°dt = -3t° Cor (hu.t) + ct Sin (hu.t) + C Cor (hu.t)

hu. (hu.) 4 (hu.) 4 :: \ \frac{1}{3} \con (lm.t) dt = \frac{1}{3} \sin (lm.t) + 3\frac{1}{2} \con (lm.t) - 6t \sin (hw.t) - \frac{1}{2} \con (hw.t) - \frac{1}{2} \con (hw.t) \\
\frac{1}{2} \con (4+3) = -8: 6 Con (6+ 1/2) =- Sin 6

Con (6+ 1/2) =- Sin 6

Important To be worked By press 1120 cellus 1122 dt 2 d (++ const.) = Six :] t 2 sin (hu.t) dt = - t3 Cor(hu.t) + 3 t2 Sin(hu.t) + 6 t Cor(hu.t) - 6 Sin (hu.t)

(hu.) (hu.) (hu.) (hu.) (hu.) (hu.) (hu.) :] + 2 Cm (hu.+) dt = 2 8: thm.) + 6 Cm(hu.) - 12 Singthum.) - 12 Singthum.) - 12 Singthum.) = 0. 1 +3 Sin chu. + 1 dt = -2 Cu (hu. ft) + 12 Cu (hu. ft) = 6 th Sin (hu.) - 18 sin Chur)

+1-1

(hu.) 3

(hu.) 3 - ah = 10 | +3 (achu+) dt - j | +3 5:4 chu-+) dt } - 1 (hu.) - (lu.) + j 2 la (hu.) - j 12 (m (hu.) 9

(hu.) 4 (hu.) 7

(hu.) 4 in Cale = 371 Con (hu.) (1-1) + j 1 Con (hu.) (1-6) = 1 (Co. (ha.) (ha.) ~ - 6 Co. (ha.) + j2 Co. (ha.) (ha.) 3 - j12 Co. (ha.) (ha.) 4 / (ha.) = 3 Co. (her.) 4 - j (ho.) + 3 hom) Co. (ho.) + jph. 3 Co. (ho.) + 2 (ho.) 4 : 1 + 3 Co. (hu.) + 6 Sinchw.) + 12 Co. (hu.) - 12 Sin (hu.)

hu. (hu.) (hu.) (hu.) (hu.) (hu.) .. al = \$\frac{1}{4} \left\ 0 - j\left\ ...\right\ = j\left\ \frac{1}{2} \left\ \frac{1}{ = j=(hw.)4 } # Cn(hu.) h'w.? - 311 Sin(hw.) h'w. ~ - 611 Co. (hu.) kw. + 611 Sin (hw.) } = al = j { 1,4 h 3 Co. (hw.) - 311 3 h Sin (hw.) - 611 h Co. (hw.) + 611 Sin Chw.) } Con: 2 :0: ah: \$ \$ | +3 & alt = # +4 | -1 = 0 Just 2 2 an ejhnt; ah = { j | 443 C. (hu.) - 3717h25in chu.) - 6117h C. (hu.) + 671 Sin chu.) }

Formula:
$$x(t) = \sum_{h=-\infty}^{\infty} ah e^{jh u.t}$$
; $u. = \frac{2\pi}{T} = \frac{2\pi}{(2\pi)} = 1$, $T = 2\pi$

$$ah = \frac{1}{T} \int nuh e^{-jh u.t} dt$$

$$\begin{array}{cccc}
ah & \frac{1}{7} & & \\
7 & & -ihant
\end{array}$$

$$ah = \int_{2\pi}^{\pi} \int_{t=-\pi}^{\pi} (\pi - t) e^{-jhant} dt$$

$$C_{m}: h = 0$$

$$C_{h = 0} = \frac{1}{2\pi} \int_{0}^{\pi} (\pi - +) \int_{0}^{\pi} dt = -\frac{1}{2\pi} \int_{0}^{\pi} dt = -\frac{1}{2\pi} \int_{0}^{\pi} (\pi - +) \int_{0}^{\pi} dt = -\frac{1}{2\pi} \int_{0}^{\pi} dt = -\frac$$

em:
$$h \neq 0$$

$$ah = \iiint_{\pi} e^{jht} dt \qquad + e^{jht} dt \qquad = \iiint_{\pi} (\pi - 1) \left(C_{0} C_{0} C_{0} + j C_{0} C_{0} C_{$$

$$= \int_{2\pi}^{\pi} \left\{ \frac{\pi \sin(ht) + j\pi}{h} \cos(ht) - t \frac{\sin(ht)}{h} + \int_{1}^{\pi} \frac{(-\cos(ht))}{h} + j + (-\cos(ht)) \right\}$$

$$= \int_{2\pi}^{\pi} \frac{\sin(ht) + j\pi}{h} \cos(h\pi) + j \frac{2\pi \sin(h\pi)}{h} + j$$

: Form Some
$$x_{(+)} = \sum_{h=\infty}^{\infty} ah e^{jht}$$
; $ah = \begin{cases} \frac{1}{2} & h = 0 \\ \frac{1}{2} & h = 0 \end{cases}$ $\begin{cases} \frac{1}{2} & h = 0 \\ \frac{1}{2} & h = 0 \end{cases}$ $\begin{cases} \frac{1}{2} & h = 0 \\ \frac{1}{2} & h = 0 \end{cases}$