$$(D^2 + 2D + 1)y = n \cos x$$

$$m = -1, -1$$

$$C \cdot F = (C_1 + C_2 \pi) \tilde{c}^{\pi}$$

$$P.T = \frac{1}{(D+1)^2} n \cos x$$

$$= \frac{1}{(D+1)^2} n \text{ Real part of } e^{ix}$$

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$$(D+i)^2+2(D+i)+1$$

$$= R.P \text{ of } e^{2x}$$

Img Pt of e'2 \ (1+ (02+20i)) 2 = Img Pt of eix { 2x + i] Ing Pd -1 (cosn + ismn) (n+i) $= -1 \left[n \cos n + 1 \cos n + i n \sin n - 1 \sin n \right]$ = 12 (name - 8 8 mg) $= -\frac{1}{2} \left[a \sin x + \cos x \right]$ $\frac{1}{(D^2-1)}n^2e^{2t} = e^{2t}\frac{1}{(D+1)^2-1}n^2$ $= e^{\chi} \frac{1}{D^2 + \chi + 2D - \chi}$ $= e^{2} \frac{1}{D^{2}+2D} n^{2} = \frac{e^{2}}{2D(1+D)} n^{2}$ $= \frac{e^2}{2D} \left(1 + \frac{D}{2} \right)^2 = \frac{e^2}{2D} \left[1 - \frac{D}{2} + (-1)(-1/2) \frac{D}{2} \right]$

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$$= \frac{e^{2}}{20} \left\{ \frac{x^{2} - 2n + 24}{2} \right\}$$

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$$= \frac{e^{2}}{20} \left\{ \frac{x^{2} - 2n + 24}{2} - \frac{1}{2} \right\}$$

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$$9 = C.f + P. + P_2$$

Case -
$$\overline{VI}$$
 When Q is the carry Junction of a

(i) $\overline{D-x} = e^{dx} = 0 dx$

(D-x)

(ii)
$$\frac{1}{(D+x)} Q = \frac{1}{e^{-x}} \int_{-x}^{x} dx$$

Solve
$$(D^2+1)y = casecx$$

 $m^2+1=0$
 $m=\pm 1$
 $C.f = C_1 cosx + C_2 Sinx$

$$P.\overline{I} = \frac{1}{(D^2+1)} coseex = \frac{1}{(D+i)(D-i)} coseex.$$

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$$(D+i)(D-i) = A + B$$

$$(D+i)(D-i) + C(D+i) + C($$

MI DUAL CAMERA

$$= e^{ix} \int (\cot x - i) dx$$

$$= e^{ix} \left(\operatorname{doy} \sin x - ix \right)$$
Similar dy
$$P_{2} = \left(\frac{1}{D+i} \right) \operatorname{casec} x = e^{ix} \int e^{ix} \operatorname{casecx} dx$$

$$= e^{ix} \int (\cot x + i) dx$$

$$= e^{ix} \left(\operatorname{doy} \sin x + ix \right)$$

$$= \frac{1}{2i} \left[e^{ix} \left(\operatorname{doy} \sin x - ix \right) - e^{ix} \left(\operatorname{loy} \sin x + ix \right) \right]$$

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$$= \frac{1}{2i} \left[e^{ix} \left(\operatorname{loy}$$