$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{1}{10} + \frac{1}{10} = \frac{1}{10}$$

$$=\frac{\chi \dot{e}^{2}}{9}+\frac{\chi^{2}e^{2}}{6}-\frac{\dot{e}^{2}}{4}$$

Rules for finding particular Integral (b)+0,+... b) = 0 (x) P(D) y = Q(X) 1. (ase I :- Q(x) = ex $y_{PI} = \frac{1}{1000} Q(x)$ P(0)y = 2" J= -1- P(0) $P(D) e^{ax} = P(a) e^{ax}$ 1 P(0) ex = 1 P(0) ex $e^{ax} = P(a) \frac{1}{P(a)} e^{ax}$ Zt ('(a) = 0 $y_{ps} = \frac{1}{p(0)} e^{ax} = \frac{e^{ax}}{1(a)} p(a) \neq 0$ Y(1 = xtex ("(-) + 0 yes: xeax p'(a) to Case (ii) :- It Q(x) = sin(ax+b) (or) cos(ax+b) P(D) y = Din (antb) (01) Con (antb) P(O)y = Sin (ax+6) yes = 1 Sin (=x+b) D Sin (ax+b) = d sin (-x+b) = a an(ex+b) p(-at) = 0 $D^2 Sin(\alpha x + \beta) = -a^2 Sin(\alpha x + \beta)$ 03 sin (=x+1) = - 03 GO (=x+1) 09 Sin (-x+6) = 94 Sin (=x+6)

 $P(0) \leq \Delta \ln (-x+b) = P(-a^2) \leq \Delta \ln (-x+b)$ $P(0) \leq \ln (-x+b) = \frac{1}{P(0)} \leq \ln (-x+b)$ $P(0) \leq \ln (-x+b) = \frac{1}{P(-a^2)} \leq \ln (-x+b)$ $P(0) \leq \ln (-x+b) = \frac{1}{P(-a^2)} \leq \ln (-x+b)$

$$\frac{d\theta}{dt} = \frac{d\theta}{dt} = \frac{d\theta$$

$$\frac{1}{P(0^{1})} = Ain(an+1) =$$

$$0:\frac{d}{dt} = \frac{1+4\frac{d}{dt}}{65} \frac{1+4\frac{d}{dt}}{65} \frac{1}{65} \frac{1}{65}$$

$$D(D^2+4)=0 \quad \text{moder}=0, \pm 2i$$

$$\int_{0}^{2} e^{2} = \frac{1}{D^{3} + 4D}$$

$$\int_{0}^{2} a^{2} = -a^{2} = -4$$

$$\int_{1}^{2} D^{2} = -\alpha^{2} = -4$$

$$P(0) = D^{3} + 4D$$

$$= \sum_{i=1}^{3} A_{i} A_{i} A_{i}$$

$$p'(0) = 30^{\frac{1}{4}} 4$$

$$= \frac{1}{2} \frac{3(4)^{\frac{1}{4}}}{3(4)^{\frac{1}{4}}} = \frac$$

$$P(0) = 30$$

$$P(-4) = 3(4) + 4$$

$$P(-4) = -\frac{1}{8}$$

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$$\sum_{x} f(x) = \chi_{x}$$

$$(1+2)^{-1} = 1-1+1^{2} \cdots$$
expand using

$$P \left(\left(+ \pi \right)^{-1} = 1 - x + x^{2} + \dots$$

$$P \left(\left(- x \right)^{-1} = 1 + x + x^{2} + \dots$$

$$P \left(\left(- x \right)^{-1} = 1 + x + x^{2} + \dots$$

$$P \left(\left(- x \right)^{-1} = 1 + x + x^{2} + \dots$$

$$P \left(\left(- x \right)^{-1} = 1 - 2x + \dots$$

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$$e_{+}:=(D^{2}+D)y=x^{2}+2x+4.$$
 $e_{+}(x)=x^{2}$

$$992 = \frac{1}{(0^2+9)} \times \frac{2}{(20+4)}$$

$$= \frac{1}{D(1+D)} \pi^{2} + 2x + 4$$

$$= \frac{1}{D} \left(1+D \right)^{-1} X^{2} + 2x + 4$$

$$= \frac{1}{D} \left[1-D+Q^{2} - \cdots \right] \left(X^{2} + 2x + 4 \right)$$

$$= \frac{1}{9} \left[x^{2} + 2x + 4 - (2x + 4) + (2) \right]$$

$$\int_{0}^{2} dx = \int_{0}^{2} \left[x^{2} + 4 \right] = \int_{0}^{2} 4 dx = \frac{1}{3} + 4x$$

$$\int_{ample} = \int_{c_1 + c_2} c_1 + \int_{c_2} c_2 + \int_{c_3} c_3 + c_4 = c_1 + c_2 = c_3 + c_4 = c_3 + c_4 = c_4 + c_4 = c_3 + c_4 = c_4 + c_4$$

(a)c (N := II Q(1) =
$$e^{ax} V(x)$$

P(0) $y = e^{ax} V(x)$

Ves: $\frac{1}{P(p)} e^{ax} V(x)$

Description

= $a e^{ax} u(x) + e^{ax} \frac{1}{a^{2}} u(x)$

= $a e$

$$\frac{1}{P(D)} e^{n} V(I) = e^{n} \frac{1}{P(D+\alpha)}.$$

$$e^{4}$$
. $\frac{1}{8(0+1)}$ $\frac{1}{(0+1)^{2}-2(0+1)+4}$

$$= e^{\frac{1}{2}} \frac{1}{0^{2}+1+1/0-1/0-2+4} = e^{\frac{1}{2}} \frac{1}{0^{2}+3} \frac{1}{(a_{1})^{2}+3} \frac{1}{(a_{1})^{2}$$

$$= e^{x} \cdot \frac{1}{(-1)+3} \omega_{0} \times$$

$$\frac{1}{P(0)}\left(\chi(10)\right) = \left(\chi - \frac{1}{P(0)}P^{1}(0)\right) \frac{1}{P(0)}$$

To find Pantaulan integral

$$= \left[\frac{1}{2} - \frac{1}{(D+1)^2} + \frac{1}{(D+1)^2} \right] - \frac{1}{(D+1)^2}$$

$$\frac{1}{2}\left(\frac{2}{2} - \frac{2}{2}\right) \frac{1}{-1+20+1} \xrightarrow{2} 0^{2} = 1$$

$$\left(\frac{\chi}{2} - \frac{2}{\rho+1}\right) = \frac{1}{2\rho} \ln \chi = \left(\frac{\chi}{2} - \frac{2}{\rho+1}\right) = \frac{1}{2} \ln \chi$$

$$= \left(\frac{\chi}{2} - \frac{2}{\rho+1}\right) = \frac{1}{2} \ln \chi$$

$$\frac{1}{2} \frac{N}{N^{1}} \frac{N^{1}}{N^{2}} - \frac{1}{2} \frac{N^{1}}{N^{2}} \frac{N^{2}}{N^{2}} \frac{N^{2}}{N^{2}$$

$$= \frac{2}{\sqrt{\sqrt{\sqrt{(D-1)}}}} \sqrt{\sqrt{(D-1)}} \sqrt{\sqrt{\sqrt{(D-1)}}} \sqrt{\sqrt{(D-1)}} \sqrt{(D-1)} \sqrt{\sqrt{(D-1)}} \sqrt{(D-1)} \sqrt{\sqrt{(D-1)}} \sqrt{(D-1)}} \sqrt{\sqrt{(D-1)}} \sqrt{\sqrt{(D-1)}} \sqrt{\sqrt{(D-1)}} \sqrt{\sqrt{(D-1)}} \sqrt{\sqrt{(D-$$

$$\frac{1}{2} \operatorname{Sint} - \left(0-1\right) \frac{1}{2} \operatorname{Sint} \longrightarrow \frac{\operatorname{Sin}\left(\operatorname{antb}\right)}{\operatorname{D}^{2} = -a^{2}} \quad a = 1$$

$$= \frac{\chi}{2} \sin \alpha - (0-1) \frac{1}{2} \sin \alpha$$