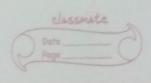
Particular Integral (Type 4 -> ex V) g. (D'-3D+2) y= 22. 22 Sol: $for A \times -D^2 - 3D + 2 = 0$ $\Rightarrow (D-2)(D-1) = 0$.: D = 1, 2 (Red & detends) For C.F. & CF = c/elatgela for P.I = 1 - 22.e2 Memenever vehave (v. 2 v oute ton ex) 2 Here, $f(D) = D^2 - 3D + 2$ Substitute D' by (D-a) [$a^{(a)}$, D+a] $(D+2)^{2}-3(D+2)+2$ $= e^{2x}. \qquad 1$ $= e^{2x}. \qquad 1$ $= e^{2x}. \qquad 1$ $= e^{2x}. \qquad 1$ = (1+D) = (1+D) = (1+D) = (1+D)· . P-I = e2 (1+0)-1 . x2 $= e^{2x} \cdot 1 \cdot (1^2 + D + D^2 - D^3 + ...) \cdot x^2$ Here, . Dx2 = 1x(x2) = 2x e Dx2 = d (2n) = 2 · 02 = 1 (2) = 0 : D'x onwards its O



$$P \cdot I = e^{2x} \cdot I \cdot \left[x^2 \cdot 2x + 2 - 0\right]$$

$$D \cdot P \cdot I = e^{2x} \cdot \left[x^2 + 2x + 2\right] dx$$

$$= e^{2x} \cdot \left[x^2 - 2x^2 + 2x\right] dx$$

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$$= e^{2x} \cdot \left[x^2 - 2x\right]$$

