$$\begin{array}{c}
|TFOS-2015| \\
|TFOS-2015|
\end{array}$$

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|TFOS-2015| \\
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We know that
$$y = \frac{1}{(D+1)} \frac{1}{(D+1)}$$

$$\Rightarrow \frac{1}{(D+1)} \frac{1}{(D+1)}$$

$$\Rightarrow \frac{1}{(D+1)} \times \frac{1}{(1-x)^2} dx$$

3

$$\Rightarrow x^{-1} \left[x^{n_1} x^{-1} (1-x)^{-1} dx \right]$$

$$\Rightarrow y = x^{-1} \left[x^{-1} (1-x)^{-1} dx \right]$$

$$\Rightarrow y = x^{-1} \left[(1-x)^{-1} dx \right]$$

$$y = x^{$$

② Solve.
$$(D^{4} + D^{2} + D$$

$$y = e^{-\frac{x}{2}} \frac{x_{0}(\frac{x\sqrt{3}}{2})}{(p^{2}-p^{2}\frac{1}{q})(p^{2}-p^{2}\frac{1}{q})+1}$$

$$y = e^{-\frac{x}{2}} \frac{1}{(p^{2}-p^{2}\frac{1}{q})(\frac{x^{2}}{q}-p^{2}\frac{1}{q})+1}$$

$$y = e^{-\frac{x}{2}} \frac{1}{(-p^{2}\frac{1}{q})(\frac{x^{2}}{q}-p^{2}\frac{1}{q})+1}$$

$$y = e^{-\frac{x}{2}} \frac{1}{(-p^{2}\frac{1}{q})(\frac{x^{2}}{q}-p^{2}\frac{1}{q})+1}$$

$$y = e^{-\frac{x}{2}} \frac{1}{(-p^{2}\frac{1}{q}-p^{2}\frac{1}{q})}$$

$$y = e^{-\frac{x}{2}} \frac{x}{(-p^{2}\frac{1}{q}-p^{2}\frac{1}{q})(\frac{x^{2}}{q}-p^{2}\frac{1}{q})}$$

$$y = e^{-\frac{x}{2}} \frac{x}{(-p^{2}\frac{1}{q}-p^{2}\frac{1}{q}-p^{2}\frac{1}{q})}$$

$$y = e^{-\frac{x}{2}} \frac{x}{(-p^{2}\frac{1}{q}-p$$

differentialing wit to c. Singular solutionis [12+44=0]. @'xdy -dy -4x3y = 8x3 smx2 by changing independent 23y - x dx -4x2y = 8x2 smx2 Independent variable = Y.

Dependent variable = Y.

P = -1

(hoosing (dx) 2 - 4x2 and = 2x then $P_i = \frac{d^2t}{dx^2} + P(x) \frac{dt}{dx}$. $Q_i = \frac{Q}{\left(\frac{dt}{dx}\right)^2}$ R= + (1)2. $P_1 = 2 - \frac{1 \cdot 2x}{4x^2} = 0$ $P_1 = \frac{3x^2 \times x^2}{4x^2}$ $P_1 = \frac{3x^2 \times x^2}{4x^2}$

$$\frac{d^{3}y}{dz^{2}} - y = 2\sin z$$

$$(D_{1}^{2} - 1)y = 2\sin z$$

$$(Funds) = c_{1}e^{t} + c_{2}e^{-t}$$

$$P \cdot I \cdot b \cdot 2\sin z \cdot b \cdot c_{1}e^{t} + c_{2}e^{-t}$$

$$D_{1}^{2} - 1 = c_{1}e^{t} + c_{2}e^{-t} \cdot c_{1}e^{-t}$$

$$y = c_{1}e^{t} + c_{2}e^{-t} \cdot c_{1}e^{-t}$$

$$y = c_{1}e^{t} + c_{2}e^{-t} \cdot c_{1}e^{-t}$$