$$y' + \frac{y}{x} = \ln x$$
 $y' = uv$
 $y' = uv + uv'$
 $u'v + uv' + \frac{uv}{x} = \ln x$
 $v' + \frac{v}{x}$
 $v' + \frac{v}{x}$
 $v' + \frac{v}{x}$

大教*

$$V' + \frac{1}{x} = 0$$

$$\int \frac{dv}{v} = -\int \frac{dx}{x}$$

$$\int \frac{du}{x} = \int \frac{du}{x} = \int \frac{dx}{x}$$

$$\int \frac{du}{x} = \int \frac{dx}{x} = \int \frac{x}{x} dx$$

$$\int \frac{du}{x} = \int \frac{x^{2} \ln x}{x} - \int \frac{x}{x} dx$$

$$u = \frac{x^{2} \ln x}{x^{2}} - \frac{1}{x} \cdot \frac{x^{2}}{x^{2}} + C$$

$$u = \frac{x^{2} \ln x}{x^{2}} - \frac{1}{x} \cdot \frac{x^{2}}{x^{2}} + C$$

$$u = \frac{x^{2} \ln x - x^{2}}{x^{2}} + C$$

$$u = \frac{x^{2} \ln x - x^{2}}{x^{2}} + C$$

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$$y' + \frac{1}{x}y = xy^{2}$$

$$u'v + uv' + \frac{uv}{x} = x(uv)^{2}$$

$$u'v + u(v' + \frac{v}{x}) = x(uv)^{2}$$

$$v' + \frac{v}{x} = 0$$

$$v = x^{-1}$$

$$u' = x^{2}u^{2}x^{-2}$$

$$u' = x^{2}u^{2}x^{-2}$$

$$u' = x^{2}u^{2}x^{-2}$$

$$du = u^{2}$$

$$dx = \int \frac{du}{u^{2}}$$

$$x = -\frac{1}{u} + c$$

$$c - x = \frac{1}{u}$$

$$u' = \frac{1}{c+x}$$

$$y = uv = x^{-1}(-\frac{1}{x+c})$$

$$y' = -\frac{1}{x(x+c)}$$

y=uV

y'= 4'V + 4V'