سنتر فيوتشر

Subject: aip LJCS

Chapter: آل سَانَهَا وَالْ

Mob: 0112 3333 122

0109 3508 204



16 w/

$$\int n(xy) = \int nx - \ln y$$

$$\int n(xy) = \int nx - \ln y$$

$$\int_{\Omega} x = \int_{\Omega} g x$$

 $\int_{\Omega} e^{x} = x$

$$\int = ConStant \qquad \frac{dy}{dx} = y' = 0$$

$$y = x^m$$

$$y' = m x'' - 1$$

lnx e

$$a_{1} = \frac{1}{4} \cdot \frac{1}{4$$

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

$$\frac{y}{z} = \frac{1}{\sqrt{x^{2}}} = 7 \left[\frac{2x - 6 \frac{1}{2}x}{x^{2} + 2 \frac{1}{2}x} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = 7 \left[\frac{2x - 6 \frac{1}{2}x}{x^{2} + 2 \frac{1}{2}x} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{2x - 6 \frac{1}{2}x}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{2x - 6 \frac{1}{2}x}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{2}} \right]$$

$$\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} \left[\frac{1 + x^{2}}{1 - x^{$$

$$y' = x' + 2x^{3} + \frac{2}{x^{5}} + \frac{3}{x^{2}} + \frac{2}{x^{3}}$$

$$y' = 4x^{3} + 6x^{2} - 10x^{6} + \frac{1}{3}(x^{2} + 1)^{3}(2x)$$

$$y' = \frac{x^{3} + 7}{2\sqrt{x + 3}}$$

$$y' = \frac{1}{2} = \frac{x^{3} + 7}{2\sqrt{x + 3}}$$

$$y' = (x^{4} + 9)^{10} \cdot \sqrt{x^{3} - 9}$$

$$y' = (x^{4} + 9)^{10} \cdot \sqrt{x^{3} - 9}$$

$$y' = \sqrt{x^{4} + 9}^{10} \cdot \sqrt{x^{3} - 9}$$

$$y' = \sqrt{x^{4} + 9}^{10} \cdot \sqrt{x^{3} - 9}$$

$$y' = \sqrt{x^{4} + 9}^{10} \cdot \sqrt{x^{4} + x^{4}}$$

$$y' = \sqrt{x^{4} + x^{4}} = \sqrt{x^{4} + x^{4}}$$

$$y' = \sqrt{x^{4} + x^{4}} = \sqrt{x^{4} + x^{4}}$$

$$y' = \sqrt{x^{4} + x^{4}} = \sqrt{x^{4} + x^{4}}$$

$$y' = \sqrt{x^{4} + x^{4}} = \sqrt{x^{4} + x^{4}}$$

$$y = \sqrt{x} \sqrt{x} \sqrt{x}$$

$$y = x^{\frac{1}{2}} x^{\frac{1}{2}} x^{\frac{1}{8}}$$

$$y' = \frac{7}{8} x^{\frac{1}{8}}$$

$$y' = \frac{7}{8} x^{\frac{1}{8}}$$

تفافرالمطلا سي واللوغاريت

if
$$y = e^{x^2} + 4e^{3x} + 8\sqrt{2+e^{x}}$$

 $y' = 2xe^{x^2} + (-12e^{3x}) + 8 \cdot \frac{1}{2\sqrt{2+e^{x}}} \cdot e^{x}$

ollegeTanta.cf

ww.CollegeTanta.cf

if

$$y = x + ex + e$$
 $y' = e^{x} + e^{x} + e^{x} + e^{x}$
 $y' = \frac{3}{3}(1 + e^{x})^{\frac{2}{3}}(-e^{x}) + \frac{e^{4x} + 9}{2 - e^{3x}}(2 + e^{x})^{\frac{-3x}{3}}e^{x}$
 $y' = \frac{1}{3}(1 + e^{x})^{\frac{2}{3}}(-e^{x}) + 4(2 - e^{3x})(2 - e^{3x}$

W.College Tanta of
$$y = 2 + 3.$$

$$y = -3x(-3) |_{n} 2 + 3 |_{-2} x(-2) |_{n} 3$$

$$y = 2 |_{3} x |_{x}$$

$$y = 2 |_{3} x |_{x}$$

$$y = (8) |_{x}$$

$$\lambda_{\lambda} = \frac{\lambda_{5} + 8 \times + 1}{1 - 1} \left[5 \times + 8 \right]$$

$$\lambda_{\lambda} = \frac{\lambda_{5} + 8 \times + 1}{1 - 1} \left[5 \times + 8 \right]$$

$$y' = \ln \left(\frac{3x}{2} + \frac{-4x}{e^{4x}} \right)$$

$$y' = \frac{1}{\frac{3x}{2} + \frac{-4x}{e^{4x}}} \left[\frac{3x}{2} \cdot 3 \ln 2 - \frac{-4x}{e^{x}} \right]$$
(1)

$$J = 4x + \frac{1}{3} \left[\frac{6x^{3} - 1}{6x^{2}} \right] - 5 \left[\frac{7x^{6}}{x^{7} + 21 - 3} \right] - 3 \left(\frac{3x^{9} + 2x - 1}{3x^{9} + 2x - 1} \right)$$

$$\lambda = \frac{1}{2} \left(\frac{x_5 + 1}{2x} \right)$$

$$\lambda = \frac{1}{2} \left(\frac{x_5 + 1}{2x^2 + 1} \right)$$

$$\lambda = \frac{1}{2} \left(\frac{x_5 + 1}{2x^2 + 1} \right)$$

$$y' = \frac{\ln |x|^{2} + 8x}{\ln x} - \ln |x|^{2} + 8x$$

$$y' = \frac{\ln |x|^{2}}{\ln x} \frac{2x + 8x}{|x|^{2} + 8x} - \ln |x|^{2} + 8x$$

$$y'' = \frac{\ln |x|^{2}}{\ln x} \frac{2x + 8x}{|x|^{2} + 8x} - \ln |x|^{2} + 8x$$

$$y'' = \frac{\ln |x|^{2}}{\ln x} \frac{2x + 8x}{|x|^{2} + 8x} - \ln |x|^{2} + 8x$$

$$x + y^{2} + \ln |x|^{2} + 8x^{3} = 0$$

$$x + y^{2} + \ln |x|^{2} + 2x + 7 + \frac{3y^{2} \cdot y'}{2x + 7} + \frac{3y^{2} \cdot y'}{2x + 7}$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} = 0$$

$$y'' + \ln |x|^{2} + \frac{3y^{2} \cdot y'}{2x + 7} =$$

.CollegeTanta.cf $\chi^3 + 3\chi y^2 + 3\chi^3 y + y^3 = 1$ Find dy 322+3y2+82y.y1+3x2y1 + 842 9 20 (x3+ 2x3x3)+ (5xx2)+ (5xx2)+ 2x52,+ 2x51,+ 2x51,) == $A_{1} = -\frac{x_{5} + 3x_{5}A}{x_{5}}$ 2 x y + 3 x2 + y2 تفا فل دالنه کال دالنے 1) نافق ما المطويات 10 y = x2 /nx 7, = x + 5x/vx

$$\int_{x_{s}} = \chi \left[x + s \chi / v \chi \right]$$

$$\int_{x_{s}} = \chi \left[x + s \chi / v \chi \right]$$

$$y' = (x^2 + 4)^{3e^{2x}} \left[\frac{x^2 + 4}{6x^2 + 4} + 6.6^{x} \ln(x^2 + 4) \right]$$

$$A = X_{\lambda}$$



www.CollegeTantaycf $U = \infty$ is of Medicin h W = 4/nx 4 = y + y hx ؛ لمر $u' = u \left[\frac{4}{x} + \frac{1}{2} \ln x \right]$ = x3 (+ + 7, px) -- 0 -= 1 = 4 X 100 = x 10 y $\frac{V'}{v} = \ln y + \alpha \cdot \frac{y'}{y}$ v= v [hy+ = 4] v'= y [hy+ = y'] -- 3 メットナーノルメートリストナーエッリー



W.College Tanta.cf

if
$$y = \frac{-4x}{e} + \ln(x^2 + 9) + \alpha$$

$$U = x + \ln x \cdot \frac{1}{2\sqrt{x}}$$

$$U' = x + \ln x \cdot \frac{1}{2\sqrt{x}}$$

$$U' = x + \frac{\ln x}{2\sqrt{x}}$$

$$U' =$$

$$|u\lambda|^{2} |u(sx-i)_{13}|^{2} + |u(x_{5}+3)_{13}|^{2} - |u(x_{3}+2)_{10}|^{2}$$

$$\frac{-10|v(x_3+2)}{-10|v(x_3+2)}$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2}{2\chi - 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^2 + 9} \right) + \frac{3}{7} - \frac{10(\frac{3\chi^2}{\chi^3 + 5})}{\frac{1}{7}}$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2}{2\chi - 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 5} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 5} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2}{2\chi - 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 9} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 9} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 9} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 9} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 9} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{3\chi^2}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\frac{y'}{y} = \frac{1}{3} \left(\frac{2\chi}{\chi^3 + 1} \right) + \frac{1}{7} \left(\frac{2\chi}{\chi^3 + 1} \right)$$

$$\rightarrow$$
 $(Sinx)^3$



$$\frac{dy}{dx} = \frac{-8inx}{(1-Cosx)^2} = \frac{-25inx_2 \cos x/2}{[25in^2 + 2]^2}$$

$$= \frac{-0.5 \times 12}{2 \cdot 5^{3}(\frac{3}{2})}$$

v. College Tahta.cf $\frac{1 + Sin x}{1 - Sin x}$ Prove that dx = Secx J= 1/2 / / (1+Six) - / (1-Six) $\lambda_1 = \frac{1}{5} \left[\frac{1 + 8i \times x}{C^2 2 \times x} + \frac{1 - 2i \times x}{C^2 2 \times x} \right]$ $=\frac{Cosx}{2}\left[\frac{1-sinx+1+sinx)}{(1-sinx)(1+sinx)}\right]=\frac{20sx}{2(1-sin^2x)}$ $= \frac{\cos x}{\cos x} = \frac{\cos x}{2} = \frac{\cos x}{2}$ if y= [Seczx+ fanzx] Prove Hat dy = 64 Seczx dy = 3 [Sec2x+tanzx]-[2 Sec2x+2 Sec2x tanex] = 6Secsx [Secsx+tansx] (Secsx+tansx)
= 6Secsx [Secsx+tansx] = (36) Secsx#

ww.CollegeTanta.cf if $Y = 2 + Sin(\ln x) + Cosec^3(e^x)$ y'= 2 tanx h2 sec2 x+ Os(hx) + + 3 Cosec (=x) [-osec (=x). Cot(=x)]. (-ex) if y= ln (Secx+ fanx) + (Sinx) + e y'= Secx tanx + Secx tanx + Secx x tanx : U = (Sinx) hu = COSX /n(Sinx) U' = - Sinx/n Sinx+ COSX COSX 01 = 0 [-Sinx In Sinx + Casx]

Sinhx =
$$\frac{e^{x} - e^{x}}{2}$$
, $Cshx = \frac{e^{x} + e^{x}}{2}$
 $tanhx = \frac{Sinhx}{cshx}$ $csechx = \frac{1}{sinhx}$
 $sechx = \frac{1}{cshx}$ $csechx = \frac{1}{sinhx}$
 $tanhx = \frac{Sinhx}{cshx}$ $tanhx = e^{x}$
 $tanhx = \frac{1}{sinhx}$ $tanhx = e^{x}$
 $tanhx = \frac{1}{s$

w.College Tanta.cf

$$GShx + Sinhx = \frac{e^{x} + e^{x}}{2} + \frac{e^{x} - e^{x}}{2}$$

$$= \frac{e^{x} + e^{x} + e^{x} - e^{x}}{2}$$

$$GShx + Sinhx = e^{x}$$

$$GShx - Sinh^{2}x = GShx - Sinhx | GShx + Sinhx |$$

$$= e^{x} \cdot e^{x} = 1$$

$$GSh^{2}x - Sinh^{2}x = 1$$

$$GSh^{2}x - Sinh^{2}x$$

1 - faul, X = SechiX #

.. Oshx - Sinbsx= 1

Singer Land: (6H2 X - 1= Coser) X #

تفاخل المعال الزائد J= Sinhu y'= U' Cosh u y'= U' Sinhu Y= Coshu y'= u' Seck 4 Y= tanhu y'=-u' Cosecheu y= cothu y'=-u' Sechu. tanhu Y= Sechu y'= -u' Cosechu. cothu Y= Cosechu if 2 = Sin/ (1x) + Cosh (=3x)+ Sin(fanhx) $\frac{\partial \chi}{\partial x} = \frac{C \rho 2 \mu \chi}{C \rho 2 \mu \chi} + \frac{2 \mu \mu \left(\frac{e}{2} \chi\right) \cdot \left(-3 \frac{e}{2} \chi\right)}{C \rho 2 \mu \chi}$ + Cos(tanhx). (Sech x) $\left(\frac{\cos hx + 8inhx}{\cosh x - 8inhx}\right)^4$ $\left(\frac{e^{x}}{e^{x}}\right)^{7}$

$$\frac{\partial y}{\partial x} = \frac{\tanh x}{e} \cdot \operatorname{Sech}^{2} x + 2 \cdot \ln 2 \left[\operatorname{csh}^{3} x + 3 x^{2} \cdot x \cdot x \cdot h \right]^{3}$$

$$y = \frac{x}{(1+x^2)^2}$$

$$y(1+x^2)^2 = x$$