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Wed 6:31 PM

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Notes

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Notes on Machine Learning
Wednesday Lessons

"%1d%%"
4/6/20 Porcentaje en python

12/29/01 No additional text

New Folder

① $f(x) = \cos(\ln(5x))$

$v = (\ln(5) + \ln(x))$

$u' = 0 + 1/x$

$v' = 1/x$

$$\boxed{f'(x) = \frac{-\sin(\ln(5x))}{x}}$$

② $G(y) = \frac{(y-1)^3}{(y^2+2y)^5}$

Puse este # incorrecto

$G'(y) = \frac{3(y-1)^2(y^2+2y)^5 - 5(2y+2)(y-1)^3}{(y^2+2y)^6}$

$G_y = \boxed{\frac{3y^4+3y^2-12y^2+6y+10y+10)(y-1)^3}{(y^2+2y)^6}}$

③ $F(t) = \ln\left(\frac{(3t+1)^4}{(4t-1)^6}\right)$

$u = (3t+1)^4$ $\quad y = (4t-1)^5$

$u' = 12(3t+1)^3$ $\quad v' = 20(4t+1)^4$

$12\sec^2(6\theta)\tan(6\theta)$

a. $y = \tan^2(6\theta)$

$12\sec^2(6\theta)\tan(6\theta)$

$\frac{12(3t+1)^3(4t-1)^5 - 20(4t-1)^4(3t+1)^4}{((4t-1)^5)^2}$

$\frac{12(4t-1)^5 - 20(4t)}{4t-1)^5}$

$\frac{12(4t-1) - 20}{(4t-1)^5}$

$f'(t) = \frac{-12t + 32}{12t^2}$

⑥ y an y''

$y = \cos(x^2)$

⑧ $s(t) = 7t + 5t^2$

v = after 2 seconds

$7 + 10t = \boxed{27}$

$45 = 7 + 10(t)$

4.5

$\frac{45}{10} = \frac{10t}{10}$ $\quad 45 = 7 + 10t$ $\quad 3.8$

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