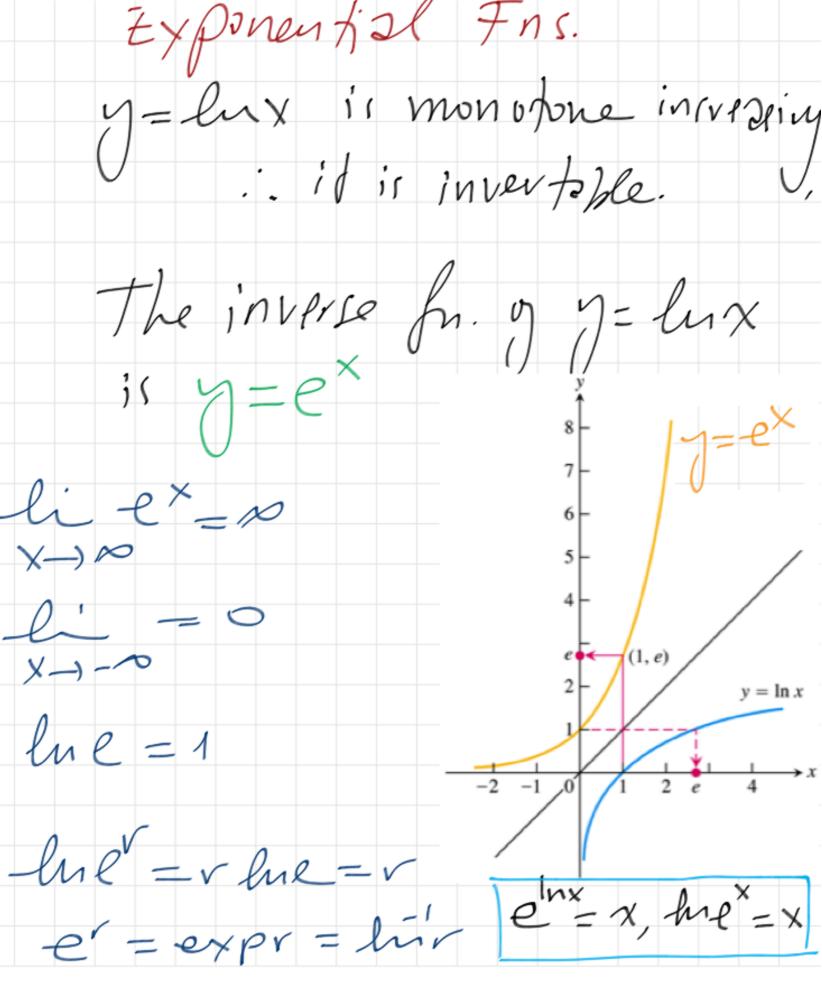
Diff. 9= (3x21)215 lu(3x2-1)+=lu(x+1)

Math 104 32 / 45 27/02/2014

Math 104 33 / 45 27/02/2014



Math 104 34 / 45 27/02/2014

lu has meaning for sel x>0, exp. Noes too. The Dertrodine & Integral of ex lue = x y = lue = xlue = x y=lnex x-luex d (lne x) = d (x) = 1 dx (ex) = 1

Math 104 35 / 45 27/02/2014

2 ex dlex) = exdx 4+ex=(exdx $\left(e^{x}dx = e^{x} + \zeta\right)$ $\frac{E}{(e^{x})}$ $u - x^2$ $du = 1 \times dx$ 1(e4dn=1e45 - du = xdx $=\frac{1}{2}e^{x^{2}}$

Math 104 36 / 45 27/02/2014

and = orline + blue = a+b

Math 104 37 / 45 27/02/2014

The general power rule for diff. $\frac{d}{dx} = nx - 1; n \neq R$ when x <0, the stove familes Dro brolds, whenever it to mosing.

Ex Diff y=X $\frac{2}{\sqrt{3}}\chi^{7}=7\chi^{6}$ $nhSt = bout \Delta(7^{x}) = ?$

Math 104 38 / 45 27/02/2014

let us now Life u^{\times} $\frac{d}{dx} a^{\times} = \frac{d}{dx} (e^{\times luu})$

Math 104 39 / 45 27/02/2014

hor exend Ing = 51/2 x lux 7/y = 601x lux + (11x.

Math 104 40 / 45 27/02/2014

 $\frac{7}{10} \times \frac{1}{10} = \frac{(x^2 + 1)(3x + 4)^{1/2}}{(x^2 + 1)(3x + 4)}$ 5/(2x-3)/x2-4) oy=(2x)12 = Sinex + esinx y = (lnx) lenx

Math 104 41 / 45 27/02/2014

logasidhms us'dh bose & axenor is 2 monophe so has inverse The log sithm with bosse or, witten 2) CognX $\mathcal{J} = \mathcal{N}^{\times}$ luy=xlud=)x= luy lux 7 = lug V

Math 104 42 / 45 27/02/2014

Cozis coled the common change of base $log_{a}^{x} = \frac{lux}{lnot}$ log x = lox = lo $l = l \times 1$ $l = l \times 1$ $l = l \times 1$ Since logax is a muldiple In a line the rules for line of held for byon

Math 104 43 / 45 27/02/2014

Math 104 44 / 45 27/02/2014

$$\frac{d}{dx} \ln x = \frac{1}{x} = 1$$

$$\int |x| = \ln x, \quad \int (1) = 1$$

$$\int |-\int (1) = \ln x, \quad \int (1 + h) - \int (1)$$

$$\int |-\int (1 + x) - \ln x|$$

$$\int |-\int (1 + x) - \ln$$

Math 104 45 / 45 27/02/2014