The Function e^x

$y = e^n$

$y' = u' \cdot e^n$

Ex .

$y = e^x$

$y' = e^x$

$y = e^{2x}$

$y' = 2 \cdot e^{2x}$

$y = e^{-x}$

$y' = -1 \cdot e^{-x}$

$y = e^{-x^2}$

$y' = -2x \cdot e^{-x^2}$

$y = e^x + e^{-x}$

$y' = e^x - 1 \cdot e^{-x}$

$y = e^{ax}$

$y' = a \cdot e^{ax}$

$y = e^{x^2-x}$

$y' = (2x-1)\ e^{x^2-x}$

$y = \frac{x}{e^x}$

$y' = \frac{1.e^x - e^x(x)}{(e^x)^2}$

$y' = \frac{e^x .(1-x)}{e^{2x}}$