$$e^{3x} + 4 = 7$$





$$\log_4(5x+2)=2$$



$$5^{2x} - 1 = 8$$





$$12 = 2 \ln 3x$$





$d/dx [e^x] = e^x$

$$f(x) = 3e^x$$

$d/dx [e^x] = e^x$

$$f(x) = e^{-4x}$$

$d/dx [e^x] = e^x$

$$f(x) = \frac{e^x - e^{-x}}{x^2}$$

$d/dx [e^x] = e^x$

$$f(x) = \tan(e^x + 1)$$

$d/dx [e^x] = e^x$

Find the equation of the tangent line of the following at (1,0):

$$f(x) = 3e^x \ln x$$

$d/dx [e^x] = e^x$

Find the extrema and points of inflection of:

$$f(x) = e^{2x+2} - x$$

$$\int e^x dx = e^x + c$$

$$\int 4e^x dx$$

$$\int e^x dx = e^x + c$$

$$\int_{1}^{3} 2xe^{5x^2-1}dx$$

$$\int e^x dx = e^x + c$$

Find the average value of the function on [2,4]

$$f\left(x\right) = \frac{e^{2x}}{1 - e^{2x}}$$

$$\int e^x dx = e^x + c$$

Solve the differential given the initial condition (1,5)

$$\frac{\mathrm{dy}}{\mathrm{dx}} = e^{\ln(x-1)}$$

Homework: p. 356# 1, 5, 13, 33, 37-43 odd, 47, 49, 55, 57, 65, 71, 85-97 odd, 101, 107, 109, 113