EXPONENTIAL & LOG FUNCTIONS

$$y = b^{x} \iff x = \log_{b} y$$
 $\ln_{e} e^{81} = 81$
 $e^{3.h.5} = \ln_{1.2.5} = 125$

$$\ln a + \ln b = \ln (ab)$$

$$\ln a - \ln b = \ln (ab)$$

$$\ln a^2 = \ln a$$

$$27^{2/3} = \sqrt[3]{27^2} = \frac{3}{9}$$

$$\int b | ve.$$

$$\int h(x+t) + \ln(x-3) = 2 \ln x$$

$$\int h(x^2-2x-3) = \ln x^2$$

$$e^{\ln(x^2-2x-3)} = e^{\ln x^2}$$

$$e^{\ln(x^2-2x-3)} = e^{\ln x^2}$$

$$2x-3 = \ln x$$

$$1 + 9 = 282$$

$$-9 - 9$$

$$42e^{5x-3} = 273$$

$$42 - 9$$

$$42e^{5x-3} = 273$$

$$42e^{5x-$$

$$\int_{0}^{1} x - \int_{0}^{1} (2x-1) = 8$$

$$\int_{0}^{1} x - \int_{0}^{1} (2x-1) = 8$$

$$\int_{0}^{1} \frac{x}{2x-1} = e^{8}(2x-1)$$

$$\chi = 2e^{8}x - e^{8}$$

$$e^{8} = 2e^{8}x - \chi$$

$$e^{8} = \chi(2e^{8}-1)$$

$$\frac{e^{8}}{2e^{8}-1} = \chi$$

$$\chi \approx 0.50$$

$$\frac{Ax^{2}+Bx+C}{(x^{2}+1)(1x^{2}+0)} = \frac{Ax^{2}+Bx+C}{x^{2}+1} + \frac{Dx+E}{2x^{2}+5}$$

$$\frac{Ax^{2}+Bx+C}{x^{2}+1} + \frac{B}{2x^{2}+5}$$

$$\frac{Ax^{2}+Bx+C}{x^{2}+1} + \frac{Bx+E}{2x^{2}+5}$$

$$\frac{Ax^{2}+Bx+C}{x^{2}+1} + \frac{Bx+E}{x^{2}+1} + \frac{Cx+E}{x^{2}+1}$$

$$\frac{Ax^{2}+Bx+C}{x^{2}+1} + \frac{Bx+E}{x^{2}+1} + \frac{Cx+E}{x^{2}+1} +$$

