EXPONENTIAL FUNCTIONS

$$y = 2^{x} \quad | y_{0} = 1$$

Solve for x.  

$$\ln(x+1) + \ln(x-3) = 2 \ln x$$

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

$$\ln(\frac{x}{2x-1}) = 8$$

PARTIAL FRACTIONS

$$\frac{26x-43}{6x^{2}+19x+10} = \frac{A^{(3x^{2})}}{2x^{2}-5} + \frac{B}{3x-2}$$

$$\frac{26x-43}{6x^{2}+19x+10} = \frac{A^{(3x^{2})}}{2x^{2}-5} + \frac{B}{3x-2}$$

$$\frac{26x-43}{26x-43} = \frac{A(3x-2)}{3} + \frac{B(2x-5)}{3}$$

$$\frac{26x-43}{26x-43} = \frac{A(3x-2)}{3} + \frac{B(2x-5)}{3}$$

$$\frac{26x-43}{36x-2} = \frac{A(3x-2)}{3} + \frac{B(2x-5)}{3}$$

$$\frac{26x-43}{3} = \frac{A(3x-2)}{3} + \frac{B(3x-2)}{3}$$

$$\frac{26x-43}{3} = \frac{A(3x-2)}{3} + \frac{A(3x-2)}{3}$$

$$\frac{$$

$$\frac{Ax + B}{3x^{2}+7} = \frac{Ax + B}{3x^{2}+7} + \frac{C}{2x-5}$$

$$\frac{X^{3}(x-4)^{2}}{X^{3}(x-4)^{2}} = \frac{A}{(x^{2}+4)^{2}} + \frac{B}{x^{2}+4} + \frac{C}{x^{3}} + \frac{D}{x^{2}} + \frac{E}{x}$$

LINES

Find the op of line between 
$$(2,-3) + (4,7)$$
 $y=mx+b$ 
 $m=\frac{7+-3}{4-2}=\frac{n}{2}$ 

Point-Slope

 $y-y_1=m(x-x_1)$ 
 $y-7=5(x-y)$