

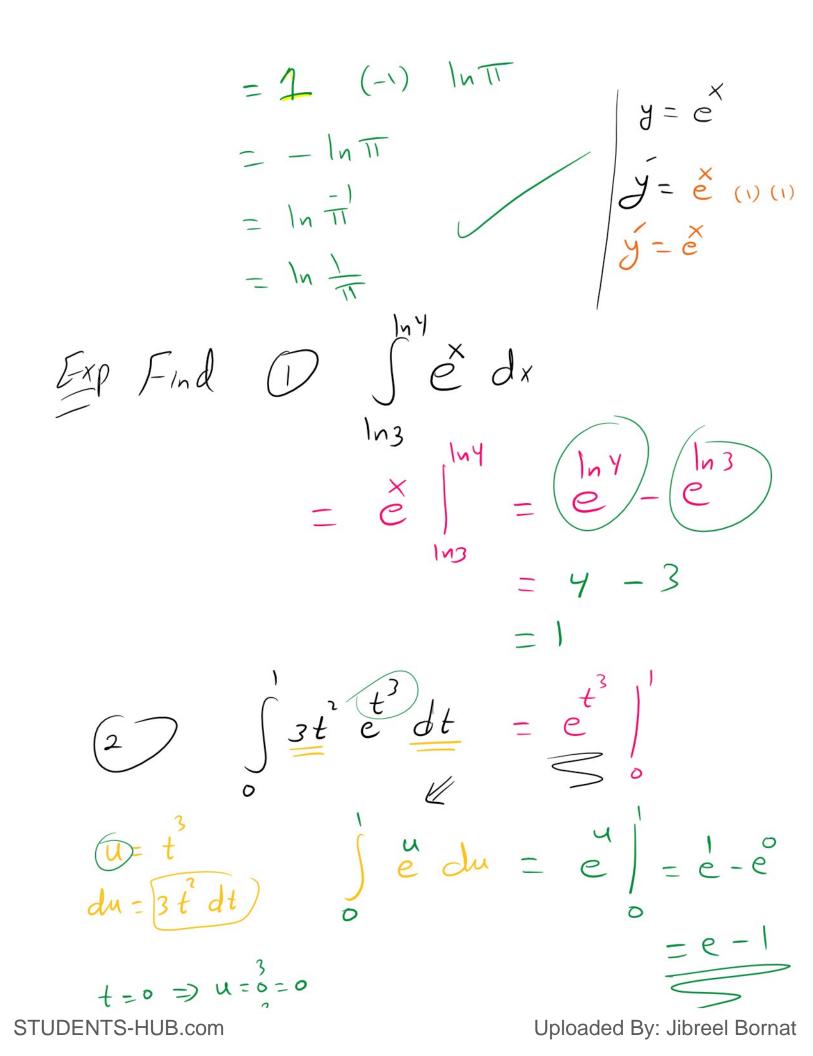
$$\frac{\ln 2}{\ln 2} = 3, \quad \ln \frac{2}{2} = -2$$
Exp Solve for X (1) ( $\ln 2x$ ) = 10  

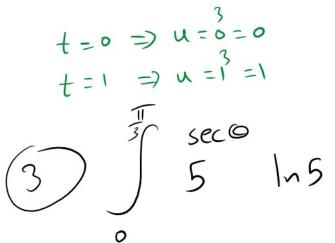
$$2x = 10$$

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( $\ln 2$ ) X = 10  
( $\ln 2$ ) X = 10  
( $\ln 2$ ) X = -10  
( $\ln 2$ )

$$\begin{array}{c} & = & u(x) \\ & = & u(x) \\ & & \downarrow = & u(x) \\ & & & \downarrow$$

 $y' = e^{x^{3}} (3x^{2}) lne$ =  $3x^{2} e^{x^{3}}$ y = e Find ý (0)  $y = \frac{3-5x^{2}}{e}(-10x)$  lne  $z = 10 \times e^{3-5x^2}$  $= -10(0) \stackrel{3}{e} = 0$ (0)  $y = \pi$  Find  $\hat{y}(\pi)$  $y' = \pi (\cos x) \ln \pi$  $\frac{\sin \pi}{11} \left( \frac{\cos \pi}{\sqrt{3}} \right) \ln \pi$ ý(π) = (-1) In TI



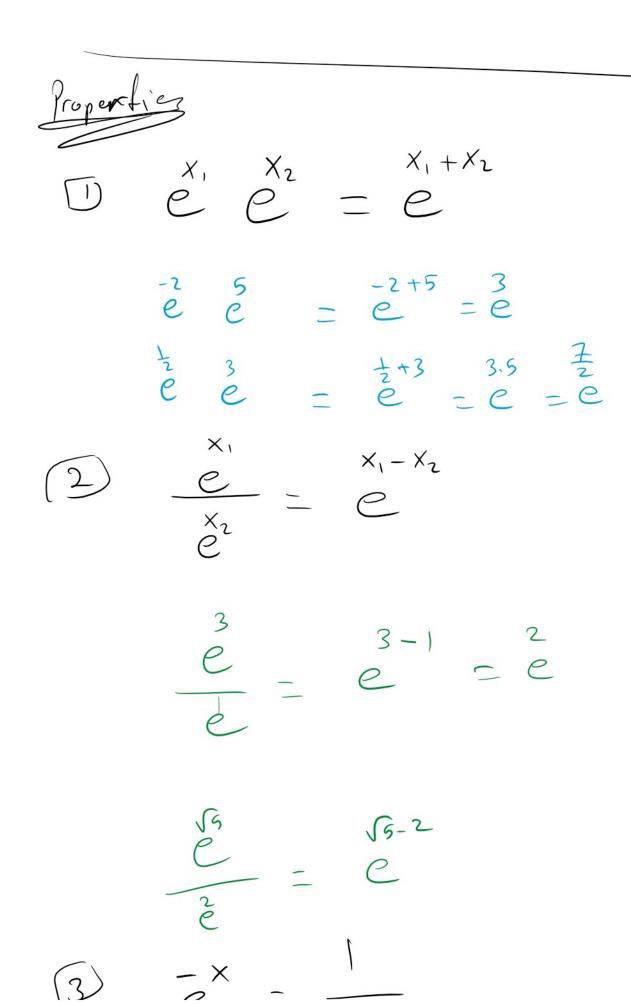


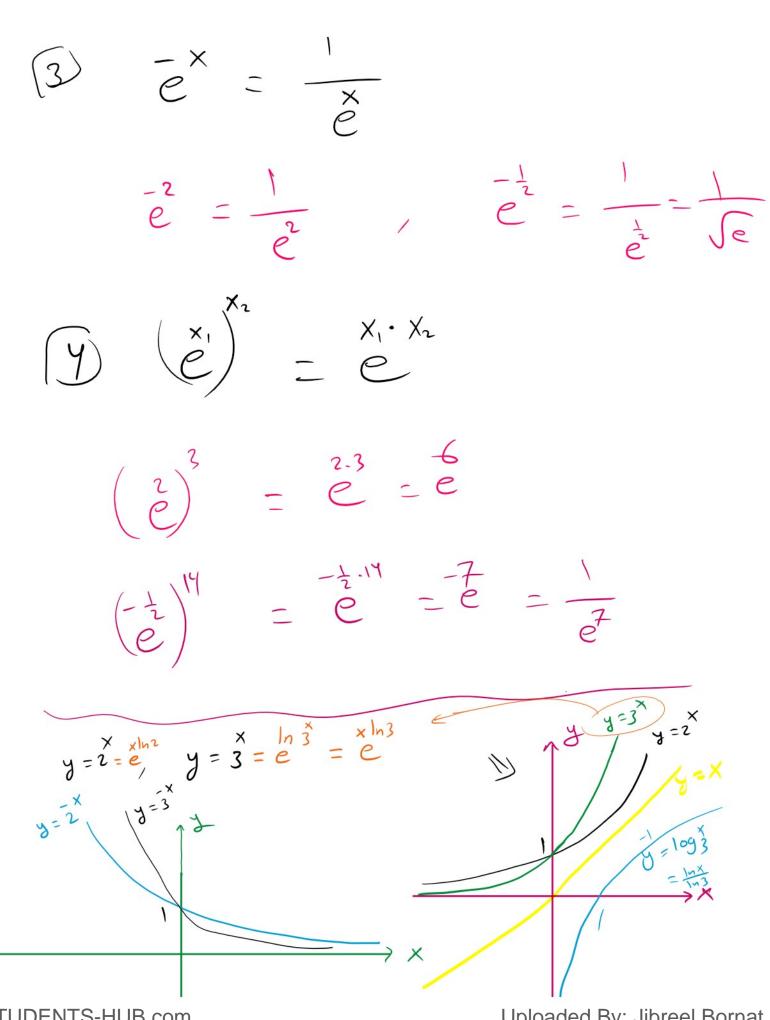


seco tano do

u= sec@ du= seco tano do 105 € = 0 =) u = seco = 1 5  $6 = \frac{1}{3} = ) u = Sa = \frac{1}{3} = \frac{1}{1} = 2$ 2  $\int_{3}^{x} dx$ n3 In3 2 X

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$$y = \frac{x}{2} = \frac{\ln^{2}x}{e^{2}} = \frac{e^{x}\ln^{2}}{e} = \frac{(x)^{x}}{(x)^{2}} = \frac{(x)^{x}}{x$$

 $\hat{y}(1) = i \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix}$ = 1 [ 1 + 0] - 1

Find y if () log × Exp  $y = \frac{\ln x^2}{\ln y} = \frac{1}{\ln y}$ ln x<sup>2</sup>  $= \frac{1}{1ny} \frac{2x}{x^2}$  $= \frac{1}{\ln^2} \frac{2x}{x^2} = \frac{1}{2\ln^2} \frac{2x}{x^2} = \frac{1}{x \ln^2}$ = log 8X2  $= \frac{\ln 2}{\ln 2} = \frac{\ln 8 + \ln 2}{\ln 2}$ 

$$= \frac{\ln^{3} + \ln 2 \ln x}{\ln 2}$$

$$= \frac{3\ln 2 + \ln 2 \ln x}{\ln 2}$$

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$$= \frac{1}{\sqrt{2}} \left(3 + \ln x\right)$$

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$$= \frac{1}{\sqrt{2}}$$

$$= 3 + \ln x$$

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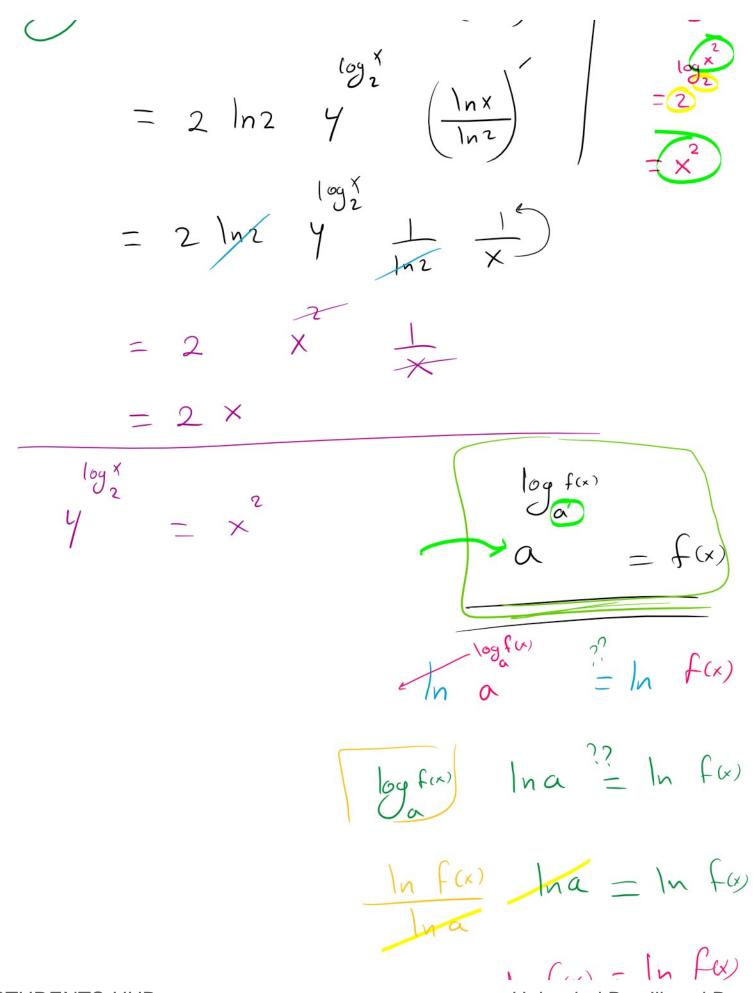
$$= 2 \ln 2$$

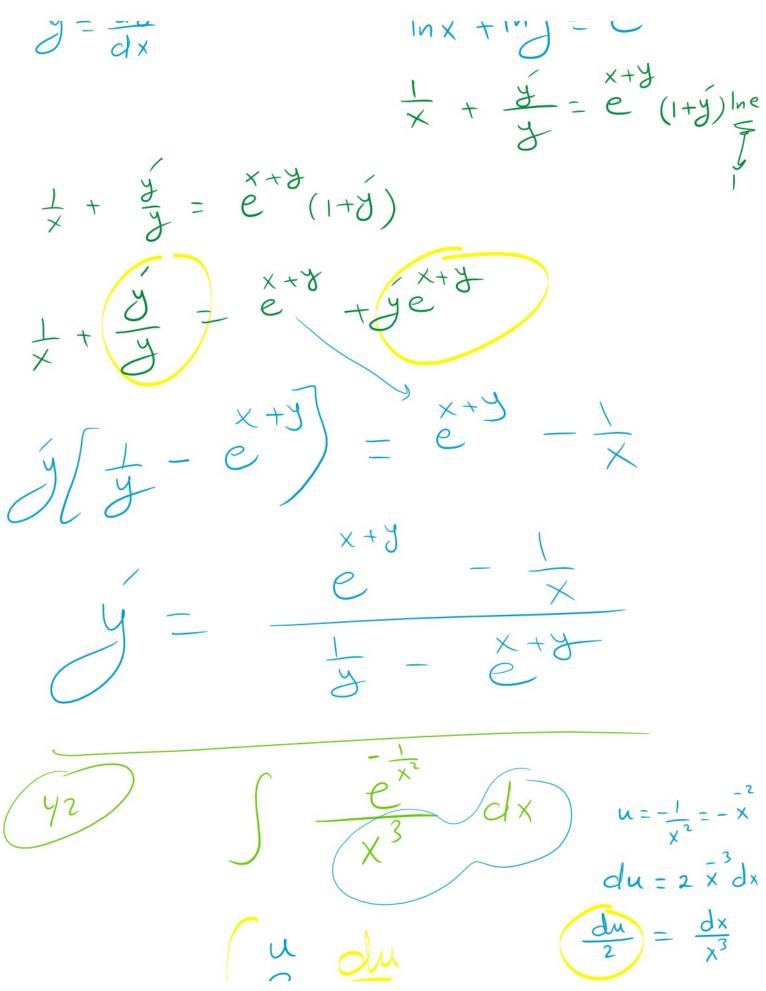
$$= \frac{\log^{2}}{\sqrt{2}}$$

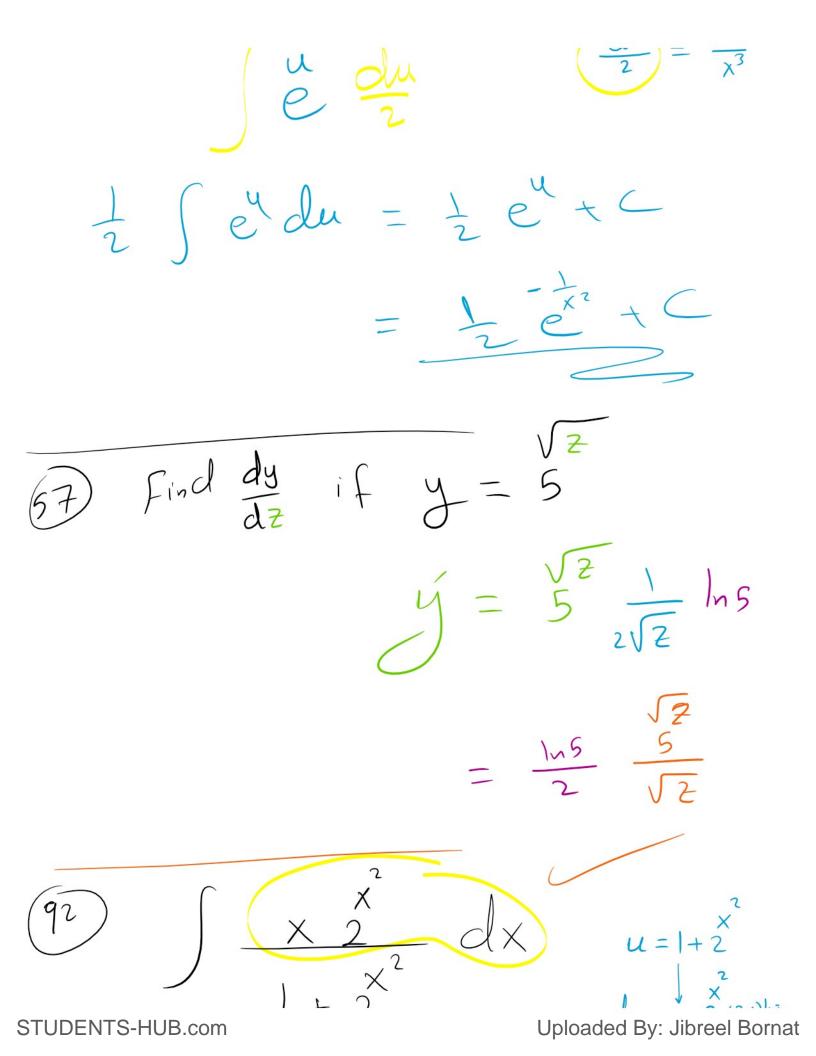
$$= 2 \ln 2$$

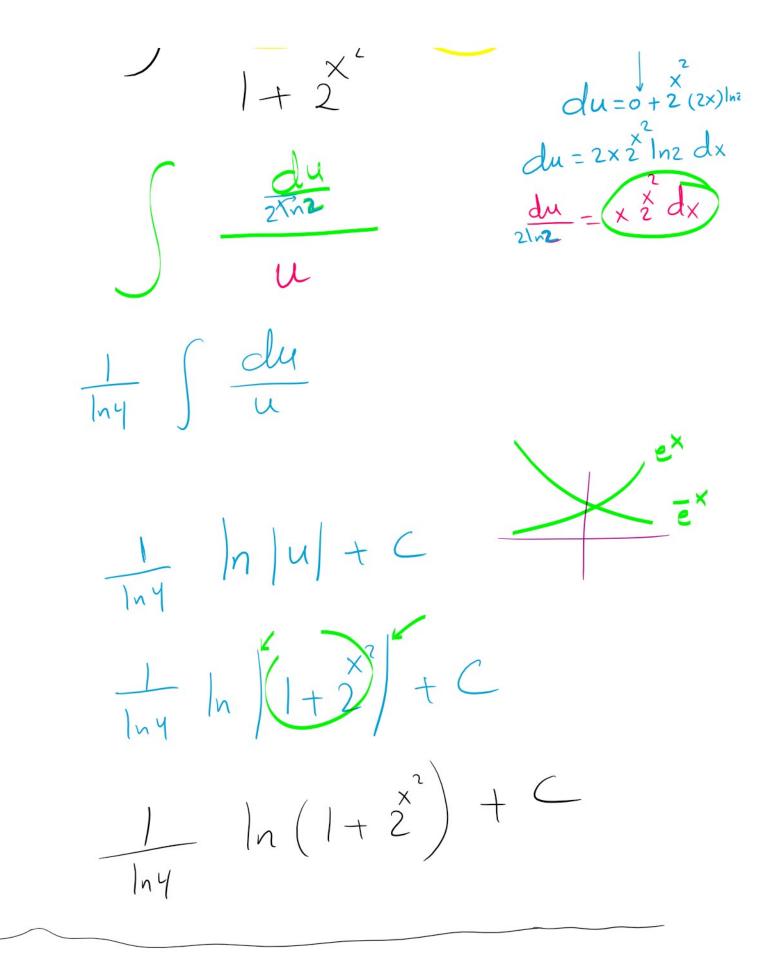
$$= \frac{\log^{2}}{\sqrt{2}}$$

$$= 2 \ln 2$$









 $f(x) = \begin{cases} 2x & x < 0 \\ x^2 & x > 0 \\ x & x > 0 \end{cases}$ 23 ?!! Yes f(x') = f(x') $X_{1}, X_{2} \in D_{1}(f) = (-\infty, \infty)$ \$Xn 2X1 for  $X_{1,X_{2}} \in D_{2}(f) = [0, \infty)$ X. = tr  $f(x_1) = f(x_2)$  $\chi^{2}_{1} = \chi^{2}_{2}$  $\sqrt{\chi_1^2} = \sqrt{\chi_2^2}$ مَرَهُ حومر [X1] = 1X2 X = X2