Convert to logarithmic form

$$E_X: 2^4 = 16$$

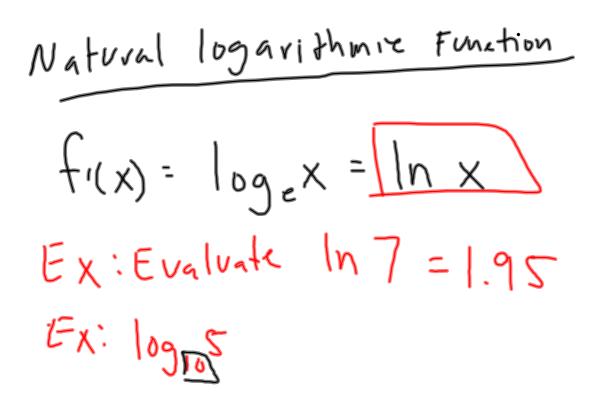
 $X = \log_2 x$
 $16 = \log_2 4$
 $E_X: 4q^{\frac{1}{2}} = 7$
 $Y = \log_x x$
 $7 = \log_x x$
 $7 = \log_x x$

ļ

Convert to Exponential Form:
Ex:
$$\log_{4} 64 = 3$$
 $y = \log_{4} \times$
 $Q^{Y} = \times$
 $q^{3} = 64$
Ex: $-1 = \log_{3} \frac{1}{3}$
 $q^{Y} = \chi$
 $3^{-1} = \frac{1}{3}$

ø

Evaluating logs - Change to exponential form. Evaluate: 109,27 ſ a"=x 34 = 27 (Y=3) Ex: 10922 an-x 2 - 7 \bigcirc 10951 5^Y = 1 0" Ex: logy O 47=0 N.S



To evaluate any log, we
use the change of base formula:

$$log_a x = \frac{\ln x}{\ln a}$$

 $Ex: log_q 9 = \frac{\ln 9}{\ln 9} = (1.58)$

ľ

P. 604 2-50,78-82,102-112 evens