

Notes 6.8 - Natural Logarithms

Exponential and Logarithmic functions are inverses.

Vocabulary

Natural Base, e - irrational number like π and has a value of 2.71828...

Natural Logarithm (\ln) - inverse of e^x so $\ln e^x$ or $e^{\ln y}$

NOTE: Since e and \ln are inverses, they "cancel" each other out.

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Write each exponential equation in logarithmic form.





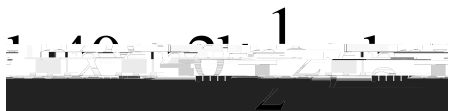
Write each logarithmic equation in exponential form.

$$e^{2.1438} = x$$

$$e^x = 18$$

Write each expression as a single logarithm.


$$\ln 10^3$$


$$\ln 10^3$$

Write each expression as a single logarithm.

$$\ln \frac{8^6}{4^2} = \ln 63$$



Simplify.


$$\frac{14}{15}$$


$$\frac{14}{15} \quad * \text{ only cancel w}$$


$$\frac{14}{15} \quad 5$$

Simplify.

$$\frac{2x(x+1)}{(x+1)^3}$$



$$2x + x =$$

Solve.



Solve. |



Continuously Compounded Interest

