

Properties of the Natural Logarithm Function

p. 386 - 392

70

The graph of $y = \ln(x)$ is shown in the coordinate plane to the right.

Some of the properties of $y = \ln(x)$:

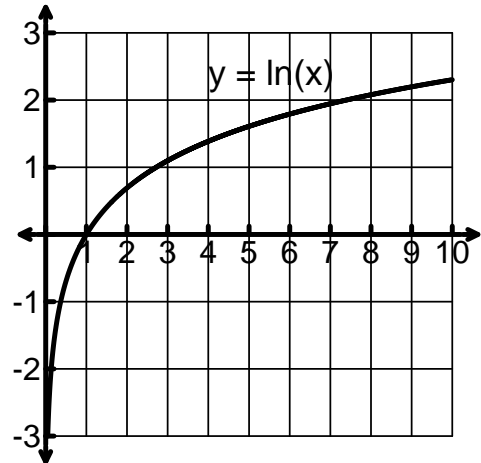
1. $\ln(1) = 0$

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

3. $\ln(a^n) = n \cdot \ln(a)$

4. $\ln\frac{a}{b} = \ln(a) - \ln(b)$

5. $e^{(\ln(x))} = x$



1. $\int \frac{x^2}{2 + x^3} dx$

2. $\int \frac{4}{2 - x} dx$