

4. Another way to discover logarithm rules.

5. Another view of the number e and the function $g(x) = e^x$.

6. Use this definition (and rules about logarithms) to confirm the rule $e^p e^q = e^{p+q}$.

7. Use the fact that $N = e^{\ln(N)}$ provided $N > 0$, to find the derivative of $y = a^x$ for $a > 0$.