

$$\int a^x dx = \frac{a^x}{\ln a} + c$$

Tips:

1. Used when a constant is to the power of x
2. Uses identity $a^x = e^{\log a^x} = e^{a \log x}$

17.1 WORKED EXAMPLE

$$\int 2^x dx$$

17.2 WORKED EXAMPLE

$$\int 3^{x^2} x dx$$