

Integration - Logarithmic Rule and Exponentials

Evaluate each indefinite integral.

1) $\int x^{-1} dx$

2) $\int 3x^{-1} dx$

3) $\int -\frac{1}{x} dx$

4) $\int \frac{1}{x} dx$

5) $\int -e^x dx$

6) $\int e^x dx$

7) $\int 2 \cdot 3^x dx$

8) $\int 3 \cdot 5^x dx$

Integration - Logarithmic Rule and Exponentials

Evaluate each indefinite integral.

1) $\int x^{-1} dx$

$$\ln |x| + C$$

2) $\int 3x^{-1} dx$

$$3 \ln |x| + C$$

3) $\int -\frac{1}{x} dx$

$$-\ln |x| + C$$

4) $\int \frac{1}{x} dx$

$$\ln |x| + C$$

5) $\int -e^x dx$

$$-e^x + C$$

6) $\int e^x dx$

$$e^x + C$$

7) $\int 2 \cdot 3^x dx$

$$\frac{2 \cdot 3^x}{\ln 3} + C$$

8) $\int 3 \cdot 5^x dx$

$$\frac{3 \cdot 5^x}{\ln 5} + C$$