

MCS 119 - Integrals involving exponential and logarithmic functions

1.  $\int 2^x dx$

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

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

4.  $\int x \ln(x^2 + 3) dx$

5.  $\int e^{2x+5} dx$

6.  $\int \frac{3x}{(x^2 + 5)^3} dx$

7.  $\int \frac{2}{2x + 5} dx$

8.  $\int \frac{2x + 2}{x^2 + 2x + 10} dx$

$$9. \int \frac{x^2 - 2x + 3}{x^3 - 3x^2 + 9x + 27} dx$$

$$10. \int \frac{\ln(x)}{x} dx$$

$$11. \int \frac{3x^3 + 2x - 1}{\sqrt[4]{x^3 + x^2 - x + 17}} dx$$

$$12. \int \frac{x^3 + 2x^2 - 3x + 4}{x} dx$$

$$13. \int \frac{x + 1}{x - 1} dx$$

$$14. \int \frac{1}{x \ln(x)} dx$$