Saitech Informatics

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INTEGRAL TECHNIQUES

Class 12 - Mathematics

1. Find the value of $\int \left(e^{x \log_e a} + e^{a \log e^x}\right) dx$ **[1]**
2. Write an anti derivative of function **cos 2x** using the method of inspection. **[1]**
3. Evaluate: $\int \sin^{-1}(\cos x) dx$ **[1]**
4. Find the integral: $\int \sec x(\sec x + \tan x) dx$. **[1]**
5. Evaluate $\int \frac{(x^2+2)}{x+1} dx$ **[1]**
6. Evaluate: $\int \left(\frac{x}{m} + \frac{m}{x} + x^m + m^x\right) dx$ **[1]**
7. Find the integral: $\int \left(x^{\frac{2}{3}} + 1\right) dx$ **[1]**
8. Evaluate : $\int \left(\sqrt{x} - \frac{1}{\sqrt{x}}\right) dx$. **[1]**
9. Evaluate: $\int \frac{1}{(1-cos2x)}$ **[1]**
10. Find the integral: $\int x^2 \left(1 - \frac{1}{x^2}\right) dx$ **[1]**
11. Evaluate: $\int \left(x^4 + x^2 + 1\right) d\left(x^2\right)$ **[1]**
12. Evaluate $\int \frac{x^3-1}{x^2} dx$. **[1]**
13. Evaluate: $\int \frac{1}{\sqrt{x}} \left(1 + \frac{1}{x}\right) dx$ **[1]**
14. Find the integral: $\int \frac{x^3-1}{x^2} dx$ **[1]**
15. Find the integral: $\int \frac{\sec^2 x}{cosec^2 x} dx$ **[1]**
16. Evaluate : $\int \frac{2}{x^2} dx$. **[1]**
17. Evaluate : $\int \left\{\frac{2-3\sin x}{\cos^2 x}\right\} dx$. **[1]**
18. Evaluate: $\int \left(\sqrt{x} + \frac{1}{\sqrt{x}}\right) dx$. **[1]**
19. Evaluate: $\int \frac{1}{x^2} dx$. **[1]**
20. Find the integral: $\int cosecx(cosecx + \cot x) dx$ **[1]**