

Integration

1. $\int (3x^{\frac{2}{3}} + \frac{8}{x}) dx$

2. $\int (x^4 - 3\sqrt{x}) dx$

3. $\int \sqrt[4]{x} dx$

4. $\int \frac{1}{x^2} dx$

5. $\int (x^3 + 2x + \sin x) dx$

6. $\int \sin(3x) dx$

7. $\int 2^x dx$

8. $\int e^{2x} dx$

9. $\int (3e^x + 2\sqrt[5]{x}) dx$

10. $\int (3\sin x + 4\cos x) dx$

11. $\int \left(\frac{1}{x^3} + \frac{2}{x^5} \right) dx$

12. $\int \left(\frac{1}{x^2} \right) (1 + 2x + 3x^2 + 4x^3) dx$

13. $\int 2x\sqrt{x^2 + 1} dx$

14. $\int \cos^2 x \sin x dx$

15. $\int \frac{e^x}{1 + e^{2x}} dx$

16. $\int 2x(x^2 + 4)^{\frac{3}{2}} dx$

17. $\int (x+1)(x^2 + 2x - 4) dx$

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

19. $\int \frac{x}{1+x^4} dx$

20. $\int (x+1)(\cos(x^2 + 2x)) dx$

21. $\int \frac{x^3}{1+x^8} dx$

22. $\int \frac{x^{\frac{1}{3}}}{(x^{\frac{4}{3}} + 1)^{\frac{3}{2}}} dx$

23. $\int 2x \sin x^2 \cos^3 x^2 dx$

24. $\int e^{\sin x} \cos x dx$

25. $\int \frac{x^4 + 2}{(x^5 + 10x)^5} dx$

26. $\int \frac{e^{-x}}{x^2} dx$

$$27. \int \frac{x+1}{\sqrt{x^2+2x+3}} dx$$

$$28. \int \frac{x^3}{1+x^4} dx$$

$$29. \int \frac{1}{x \ln x} dx$$

$$30. \int \frac{x^3+x-1}{x^2+1} dx$$

$$31. \int \frac{\cos x}{1+\sin x} dx$$

$$32. \int \frac{\sin(\ln x)}{x} dx$$

$$33. \int \frac{e^{2x}}{(1+e^{2x})} dx$$

$$34. \int \frac{\sqrt{1+\ln x}}{x} dx$$