

1. $\int_{-1}^1 3x^2 \sqrt{x^3 + 5} dx$

2. $\int x^3(2 + x^4)^5 dx$

3. $\int_0^7 \sqrt{4 + 3x} dx$

4. $\int \frac{1}{(1 - 6t)^4} dt$

5. $\int_0^{\sqrt{\pi}} x \cos(x^2) dx$

6. $\int \frac{\sec(1/x)}{x^2} dx$

7. $\int_{1/6}^{1/2} \csc(\pi t) \cot(\pi t) dt$

8. $\int x^2(x^3 + 5)^9 dx$

9. $\int_0^1 x e^{-x^2} dx$

10. $\int (3t + 2)^{2.4} dt$

11. $\int_0^{\pi/2} \cos(x) \sin(\sin(x)) dx$

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

13. $\int \frac{\sin^{-1}(x)}{\sqrt{1 - x^2}} dx$

14. $\int e^x \sin(e^x) dx$

15. $\int_{-1}^0 \frac{8x}{(4x^2 + 1)^2} dx$

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

17. $\int_0^1 -12x^2(4x^3 - 1)^3 dx$

18. $\int \sec(2\theta) \tan(2\theta) d\theta$

19. $\int_{-1}^2 6x(x^2 - 1)^2 dx$

20. $\int \sqrt{x} \sin(1 + x^{3/2}) dx$

21. $\int_0^1 \frac{24x}{(4x^2 + 4)^2} dx$

22. $\int (1 + \tan(\theta))^5 \sec^2(\theta) d\theta$

23. $\int_{-3}^0 -\frac{8x}{(2x^2 + 3)^2} dx$

24. $\int e^{\cos(t)} \sin(t) dt$

25. $\int_0^1 \frac{16x}{(4x^2 + 4)^2} dx$

26. $\int \frac{\tan^{-1}(x)}{1 + x^2} dx$

27. $\int_{-1}^0 18x^2(3x^3 + 3)^2 dx$

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

29. $\int_0^1 -\frac{8x}{(4x^2 + 2)^2} dx$

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

31. $\int \frac{\cos(\pi/x)}{x^2} dx$

32. $\int \frac{\sin(x)}{1 + \cos^2(x)} dx$

33. $\int \frac{1}{\cos^2(t) \sqrt{1 + \tan(t)}} dt$

1. $4\sqrt{6} - \frac{16}{3}$
2. $\frac{1}{24} (2 + x^4)^6 + C$
3. 26
4. $\frac{1}{18(1 - 6t)^3} + C$
5. 0
6. $-\ln \left| \frac{1 + \sin(1/x)}{\cos(1/x)} \right| + C$
7. $\frac{1}{\pi}$
8. $\frac{1}{30} (x^3 + 5)^{10} + C$
9. $\frac{e - 1}{2e}$
10. $\frac{5}{51} \sqrt[5]{(3t + 2)^2} (27t^3 + 54t^2 + 36t + 8) + C$
11. $1 - \cos(1)$
12. $-\frac{1}{2x^2 + 2} + C$
13. $\frac{1}{2} (\sin^{-1}(x))^2 + C$
14. $-\cos(e^x) + C$
15. $-\frac{4}{5}$
16. $\frac{1}{2} \ln(x^2 + 1) + C$
17. -20
18. $\frac{\sec(2\theta)}{2} + C$
19. 27
20. $-\frac{3}{2} \cos\left(1_x^{3/2}\right) + C$
21. $\frac{3}{8}$
22. $\frac{1}{6} (\tan(\theta) + 1)^6 + C$
23. $\frac{4}{7}$
24. $-e^{\cos(t)} + C$
25. $\frac{1}{4}$
26. $\frac{1}{2} (\tan^{-1}(x))^2 + C$
27. 18
28. $-\cos(\ln(x)) + C$
29. $-\frac{1}{3}$
30. $\ln(e^x + 1) + C$
31. $-\frac{1}{\pi} \sin\left(\frac{\pi}{x}\right) + C$
32. $\tan^{-1}(\tan^2(x/2)) + C$
33. $2\sqrt{1 + \tan(t)} + C$