

$$1. \int (3x^2 + 2x + 1) dx$$

$$2. \int (3t^4 + 5t - 6) dt$$

$$3. \int (1 - 2x^2 + 3x^3) dx$$

$$4. \int \left(-\frac{1}{t^2}\right) dt$$

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

$$6. \int \left(x^{5/2} - \frac{5}{x^4} - \sqrt{x}\right) dx$$

$$7. \int \left(\frac{3}{2}t^{1/2} + 7\right) dt$$

$$8. \int \left(\frac{2}{x^{3/4}} - \frac{3}{x^{2/3}}\right) dx$$

$$9. \int \left(\sqrt[3]{x^2} + \frac{4}{\sqrt[4]{x^5}}\right) dx$$

$$10. \int \left(2x\sqrt{x} - \frac{1}{\sqrt{x}}\right) dx$$

$$11. \int (4x^3 - 4x + 6) dx$$

$$12. \int \left(\frac{1}{4}t^5 - \frac{6}{t^2}\right) dt$$

$$13. \int 7 dx$$

$$14. \int \left(4\sqrt[3]{x^2} - \frac{5}{\sqrt[3]{x}}\right) dx$$

1. $\int (x + 1)^6 dx$

2. $\int (2 - x)^5 dx$

3. $\int (4 - 3x)^7 dx$

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

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

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

7. $\int \sin(\pi x + 1) dx$

8. $\int \cos \frac{\pi t}{3} dt$

9. $\int \sec 2\theta \tan 2\theta d\theta$

10. $\int \csc^2 5x dx$

11. $\int x\sqrt{x^2 - 1} dx$

12. $\int 3t(1 - 2t^2)^{10} dt$

13. $\int x\sqrt{2 - 3x^2} dx$

14. $\int \frac{t dt}{\sqrt{2t^2 + 1}}$

15. $\int x^3\sqrt{x^4 + 1} dx$

16. $\int \frac{x^2 dx}{\sqrt[3]{x^3 + 1}}$

17. $\int x^2 \cos(2x^3) dx$

18. $\int t \sec^2(t^2) dt$

19. $\int \frac{x^2 dx}{(x^3 + 5)^4}$

20. $\int y^2 \sqrt[3]{2 - 4y^3} dy$

21. $\int \cos^3 x \sin x dx$

22. $\int \sin^5 3z \cos 3z dz$

23. $\int \tan^3 \theta \sec^2 \theta d\theta$

24. $\int \sec^3 \theta \tan \theta d\theta$

$$36. \int e^{3x} dx$$

$$38. \int xe^{x^2} dx$$

$$40. \int \sqrt{x} e^{2x\sqrt{x}} dx$$

$$42. \int (\cos x) e^{\sin x} dx$$

$$44. \int (e^x + e^{-x})^2 dx$$

$$46. \int e^{2x+3} dx$$

$$48. \int x^2 e^{1-x^3} dx$$

$$50. \int \frac{e^{1/t}}{t^2} dt$$

$$52. \int \exp(x + e^x) dx$$

$$37. \int e^{1-2x} dx$$

$$39. \int x^2 e^{3x^3-1} dx$$

$$41. \int \frac{e^{2x}}{1 + e^{2x}} dx$$

$$43. \int (\sin 2x) e^{1-\cos 2x} dx$$

$$45. \int \frac{x^{\dot{}} + e^{2x}}{x^2 + e^{2x}} dx$$

$$47. \int te^{-t^2/2} dt$$

$$49. \int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx$$

$$51. \int \frac{e^x}{1 + e^x} dx$$

$$53. \int \sqrt{x} \exp(-\sqrt{x^3}) dx$$