

NCERT/CBSE MATHEMATICS CLASS 12 ASSIGNMENT INDEFINITE INTEGRALS

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REVISION ASSIGNMENT WITH SOLUTIONS

Indefinite Integrals

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

2. $I = \int \frac{(\log x)^2}{x} dx$

3. $I = \int \frac{dx}{x+x \log x} = \int \frac{dx}{x(1+\log x)}$

4. $I = \int \sin x \sin(\cos x) dx$

5. $I = \int (\sin ax + b) \cos(ax + b) dx$

6. $I = \int \sqrt{ax + b} dx$

7. $I = \int \frac{1}{1-\tan x} dx$

8. $I = \int \frac{\sqrt{\tan x}}{\sin x \cos x} dx$

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9. $I = \int \frac{(1 + \log x)^2}{x} dx$

10. $I = \int \frac{(x + 1)(x + \log x)^2}{x} dx$

11. $I = \int \frac{x^3 \sin(\tan^{-1} x^4)}{1 + x^8} dx$

12. $I = \int \frac{10x^9 + 10^x \log_e 10 dx}{x^{10} + 10^x}$

13. $I = \int \frac{dx}{\sin^2 x + \cos^2 x}$

14. $I = \int \frac{x}{(x - 1)(x^2 + 1)} dx$

15. $I = \int \frac{1 - x^2}{x - 2x^2} dx$

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

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17. $I = \int \frac{1}{x(x^n + 1)} dx$

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

19. $I = \int \frac{\cos x \, dx}{(1 - \sin x)(2 - \sin x)}$

20. $I = \int \frac{3x - 1}{(x + 2)^2} dx$

21. $\int \frac{1}{\cos(x - a)\cos(x - b)} dx$

22. $\int \frac{3x^2}{x^6 + 1} dx = \int \frac{3x^2}{(x^3)^2 + 1} dx$

23. $I = \int \frac{1}{\sqrt{(2 - x)^2 + 1}} dx$

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

25. $\int \frac{dx}{\sqrt{2x - x^2}}$

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26. $I = \int \frac{dx}{\sqrt{(x-a)(x-b)}}$

27. $I = \int x \sin^{-1} x \, dx$

28. $I = \int (\sin^{-1} x)^2 \, dx$

29. $I = \int (x^2 + 1) \log x \, dx$

30. $I = \int \frac{1}{(1-x^2)} dx$

31. $I = \int \frac{dx}{\sqrt{x+a} + \sqrt{x+b}}$

Definite Integrals

32. Integrate using limits of a sum:

$$I = \int_2^3 x^2 dx$$