



MATHS

BOOKS - CHHAYA PUBLICATION MATHS (BENGALI ENGLISH)

INTEGRALS OF SOME SPECIAL FORM OF FUNCTIONS

Example 1

1. Integrate : $\int \sin^5 x dx$

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Example 2

1. Evaluate : $\int \cos^3 2x dx$

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Example 3

1. Integrate : $\int \sin^4 x dx$

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Example 4

1. Integrate : $\int \frac{\sqrt{\sin x}}{\cos^{\frac{9}{2}} x} dx$

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Example 7

1. Integrate : $\int \sec^6 x dx$

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Example 8

1. Evaluate : $\int \operatorname{cosec}^4 x dx$

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Example 9

1. Integrate : $\int \sec^5 x dx$

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Example 10

1. $\int \cos e c^3 x dx$

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Example 11

1. Integrate : $\int \frac{dx}{4 + 5 \cos x}$

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Example 12

1. Evaluate : $\int \frac{dx}{4 + 5 \sin^2 x}$

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Example 13

1. Integrate: $\int \frac{dx}{3 \sin x - 4 \cos x}$

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Example 14

1. Integrate: $\int \frac{\sin x}{\sin x - \cos x} dx$

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Example 15

1. Evaluate : $\int \frac{2 \cos x + 3 \sin x}{3 \cos x + 2 \sin x} dx$

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Example 16

1. Integrate: $\int \frac{2x^2 - 3x + 9}{x^2 + 4x - 5} dx$

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Example 17

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

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Example 18

1. Integrate: $\int \frac{x^3}{(x-1)(x-2)(x-3)} dx$

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Example 19

1. Integrate: $\int \frac{5x^2 + 1}{(x+1)^2(2x-1)} dx$

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Example 20

1. Evaluate: $\int \frac{dx}{x^2 \sqrt{x+1}}$

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Example 21

1. Integrate : $\int \frac{dx}{1+x^3}$

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Illustrative Examples

1. Integrate : (i) $\int \sin^3 x \cos^5 x dx$

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2. Integrate : $\int \cos^3 x \sin^4 x dx$

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3. Integrate: $\int \sin^2 x \cos^4 x dx$

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4. Evaluate: $\int \frac{dx}{\cos(x-a)\cos(x-b)}$

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5. Evaluate: $\int \frac{(x-l)(x-m)}{(x-a)(x-b)} dx$

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6. Integrate: $\int \frac{x^2}{2x^4 - 7x^2 - 4} dx$

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7. Evaluate: $\int \frac{x^3}{x^4 + x^2 - 12} dx$

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8. Evaluate: $\int \frac{x^2 dx}{x^6 - 6x^3 + 5}$

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9. Evaluate: $\int \frac{x^4 + 1}{x^6 + 1} dx$

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10. Evaluate: $\int \frac{\sin x dx}{\sin^3 x + \cos^3 x}$

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1. To evaluate $\int \sin^5 x dx$ we put -

A. $\sin x = z$

B. $\cos x = z$

C. $\tan x = z$

D. $\tan^2 x = z$

Answer: C



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2. To evaluate $\int \operatorname{cosec}^5 x dx$ we put

A. $\cot x = z$

B. $\operatorname{cosec} x \cot x = z$

C. $\cot x = z$

D. none of these

Answer: D



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3. To evaluate $\int \sin^4 x \cos^3 x dx$ we put

A. $\sin x = z$

B. $\cos x = z$

C. $\tan x = z$

D. none of these

Answer: A



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4. Evaluate: $\int \sin^{-\frac{11}{3}} x \cos^{\frac{5}{3}} x dx$

- A. $(m + n)$ is a negative integer
- B. $(m + n)$ is a negative even integer
- C. $(m + n)$ is a negative integer
- D. $(m + n)$ is a positive even integer

Answer: B

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5. To evaluate $\int \cos^5 x dx$ we put

- A. $\cos x = z$
- B. $\sin x = z$
- C. $\sec x = z$

D. $\tan x = z$

Answer: B

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6. Evaluate $\int \tan^3 x dx$

A. $\frac{1}{2} \tan^2 x + \log|\sec x| + c$

B. $\tan^2 x - \log|\sec x| + c$

C. $\frac{1}{2} \tan^2 x - \log|\sec x| + c$

D. $\frac{1}{2} \tan^2 x - \log|\cos x| + c$

Answer: C

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7. The value of $\int \sin^2 x \cos^3 x dx$ is

A. $\frac{1}{3} \cos^3 x - \frac{1}{5} \cos^5 x + c$

B. $\frac{1}{5} \cos^5 x - \frac{1}{3} \cos^3 x + c$

C. $\frac{1}{3} \sin^3 x - \frac{1}{5} \sin^5 x + c$

D. $\frac{1}{5} \sin^5 x - \frac{1}{3} \sin^3 x + c$

Answer: C



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8. The value of $\int \operatorname{cosec}^4 x dx$ is-

A. $-\cot x + \frac{1}{3} \cot^3 x + c$

B. $\cot x + \frac{1}{3} \cot^3 x + c$

C. $\cot x - \frac{1}{3} \cot^3 x + c$

$$D. - \left(\cot x + \frac{1}{3} \cot^3 x \right) + c$$

Answer: D

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9. The value of $\int \cos^3 x dx$ is

A. $\frac{1}{3} \sin^3 x - \sin x + c$

B. $\sin x - \frac{1}{3} \sin^3 x + c$

C. $\cos x - \frac{1}{3} \cos^3 x + c$

D. $\frac{1}{3} \cos^3 x - \cos x + c$

Answer: B

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10. The value of $\int \sin^3\left(\frac{x}{2}\right) dx$ is

A. $\frac{2}{3} \cos^3 \frac{x}{2} - 2 \cos \frac{x}{2} + c$

B. $2 \cos \frac{x}{2} - \frac{2}{3} \cos^3 \frac{x}{2} + c$

C. $\frac{1}{2} \cos \frac{x}{2} - \frac{1}{6} \cos^3 \frac{x}{2} + c$

D. $\frac{1}{6} \cos^3 \frac{x}{2} - \frac{1}{2} \cos \frac{x}{2} + c$

Answer: A



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Very Short Answer Type Questions

1. $\int \cos^5 x dx$



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

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3. Evaluate the following integrals :

$$\int \cos^4 x dx$$

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

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5. $\int \sin^5 \frac{x}{2} dx$

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6. $\int \sin^2 x \cos^5 x dx$

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

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

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9. Evaluate: $\int \sin^3 x \cos^5 x dx$

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10. $\int \sin^4 x \cos^4 x dx$

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11. Evaluate: $\int \sin^3 x \cos^5 x dx$

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12. $\int \sin 2x \sin^4 x dx$

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Short Answer Type Question

1. $\int \cos 2x \cdot \sin^3 x dx$

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$$2. \int \sqrt{\sin x} \cos^3 x \, dx$$

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$$3. \int \frac{\sin x \, dx}{\cos 2x}$$

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$$4. \int \frac{\sin^2 x \, dx}{\cos^6 x}$$

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$$5. \int \frac{dx}{\sqrt{\sin x} \cdot \cos^{\frac{7}{2}} x}$$

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6. $\int \frac{\cos^2 x}{\sin^4 x} dx$

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7. $\int \frac{\sin^2 \theta d\theta}{(1 + \cos \theta)^2}$

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8. $\int \tan^3 x dx$

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9. $\int \cot^4 x dx$

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10. $\int \cot^5 x dx$

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11. $\int \tan^6 x dx$

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12. $\int \sec^4 x dx$

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13. $\int \operatorname{cosec}^6 x dx$

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14. $\int \sec^3 x dx$

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15. $\int \operatorname{cosec}^5 x dx$

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16. $\int \tan^2 x \sec^4 x dx$

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17. $\int \frac{\cos x}{\cos 2x} dx$

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18. $\int \left(\frac{\cot x}{\sin x} \right)^4 dx$



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19. $\int \frac{\sin^3 x dx}{\cos^{\frac{2}{5}} x}$



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20. $\int \frac{dx}{\sin^4 x \cos^4 x}$



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21. $\int \frac{dx}{1 + \sin 2x}$



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

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23. $\int \frac{dx}{b^2 \sin^2 x + a^2 \cos^2 x}$

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24. $\int \frac{dx}{2 \sin^2 x + \cos^2 x}$

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25. Evaluate $\int \frac{dx}{\sin x \cos x}$

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26. $\int \frac{\sin x dx}{\sin 3x}$

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27. $\int \frac{\cos x dx}{\cos 3x}$

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28. $\int \frac{dx}{5 + 4 \cos x}$

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29. $\int \frac{dx}{5 + 4 \sin x}$

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$$30. \int \frac{dx}{3 + 2 \sin x + \cos x}$$

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$$31. \int \frac{x dx}{(x + 1)(2x + 1)}$$

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$$32. \int \frac{(x - 1) dx}{(x + 2)(x - 3)}$$

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$$33. \int \frac{(x - 1) dx}{6x^2 + x - 1}$$

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$$34. \int \frac{dx}{(x-a)(x-b)}$$

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$$35. \int \frac{x dx}{(x-a)(x-b)}$$

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$$36. \int \frac{(x+2) dx}{x^2 - 3x + 2}$$

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$$37. \text{ Find } \int \frac{x^2 + x + 1}{(x+2)(x^2+1)} dx$$

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$$38. \int \frac{(7x + 5)dx}{x^3 + 2x^2 - x - 2}$$

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$$39. \int \frac{(x^2 + 1)dx}{x(x^2 - 1)}$$

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$$40. \int \frac{x^2 dx}{(x - a)(x - b)(x - c)}$$

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$$41. \int \frac{(2x + 1)dx}{x(x + 1)(x + 2)}$$

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$$42. \int \frac{(x^2 - 3) dx}{x^3 - 7x + 6}$$

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$$43. \int \frac{(3x^2 - 1) dx}{x^2 - 3x + 2}$$

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$$44. \int \frac{(x - 1)(x - 2)}{(x - 3)(x - 4)} dx$$

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$$45. \int \frac{x^2 dx}{x^2 + 7x + 12}$$

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$$46. \int \frac{x^3 dx}{(x-a)(x-b)(x-c)}$$

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$$47. \int \frac{x^3 dx}{x^2 - 4x + 3}$$

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$$48. \int \frac{dx}{x(x+1)^2}$$

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$$49. \int \frac{dx}{x^3 + x^4}$$

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50. $\int \frac{dx}{(x^2 - 4)^2}$

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

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

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53. $\int \frac{dx}{x + 1}$

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$$54. \int \frac{dx}{x}$$

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$$55. \int \frac{x dx}{(x - 1)(x^2 + 4)}$$

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$$56. \int \frac{dx}{(x - 1)^{\frac{3}{2}}(x + 1)^{\frac{1}{2}}}$$

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$$57. \int \frac{x^3 + 3x + 2}{(x^2 + 1)^2(x + 1)} dx$$

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$$58. \int \frac{4e^x + 6e^{-x}}{9e^x - 4e^{-x}} dx$$

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Long Answer Type Questions

1. Integrate :

$$\int \frac{\sin 2x dx}{\sin^4 x + \cos^4 x}$$

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

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$$3. \int \frac{\cos x dx}{\sin x + \cos x}$$

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4.
$$\int \frac{\sin x dx}{\sin x + \cos x}$$

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5.
$$\int \frac{dx}{3 + \sin^2 x} = ?$$

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6.
$$\int \sqrt{1 + \sec x} dx$$

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7.
$$\int \frac{\cos x + 2 \sin x}{3 \cos x + 4 \sin x} dx$$

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$$8. \int \frac{dx}{1 - \sin^4 x}$$

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$$9. \int \frac{dx}{\cos 3x - \cos x}$$

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$$10. \int \frac{\cos x - \sin x}{\sqrt{\sin 2x}} dx$$

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$$11. \int \frac{dx}{1 + \tan x}$$

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$$12. \int \frac{\tan x}{1 + \tan x} dx$$

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$$13. \int \frac{\sin x dx}{\sqrt{1 - \sin x}}$$

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$$14. \int \frac{dx}{(1 + x^2)^{\frac{7}{2}}}$$

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$$15. \int \frac{\cos^4 \theta}{\sin \theta} d\theta$$

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16. $\int \frac{\sin^3 \theta d\theta}{\sqrt{\cos \theta}}$

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17. $\int \sec^{\frac{8}{9}} x \operatorname{cosec}^{\frac{10}{9}} x dx$

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18. $\int \operatorname{cosec}^{\frac{2}{3}} x \cos^3 x dx$

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19.

$$\int \frac{dx}{1 - \cos \alpha \cos x} \left(0 < \int \frac{dx}{1 - \cos \alpha \cos x} \left(0 \leq \alpha \leq \frac{\pi}{2} \right) \alpha \leq \frac{\pi}{2} \right)$$

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$$20. \int \frac{dx}{\cos x + \cos \alpha}$$

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$$21. \int x \frac{dx}{1+x} (1+x^2)$$

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$$22. \int \frac{dx}{1-x^3}$$

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$$23. \int \frac{dx}{x^2 + a^2} (x + b)$$

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$$24. \int \frac{x^3 dx}{(x+a)(x^2+a^2)}$$

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$$25. \int x \frac{dx}{x^2 + a^2(x^2 + b^2)}$$

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$$26. \int \frac{x^2 dx}{x^2 + a^2(x^2 + b^2)}$$

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$$27. \int \frac{x^2 dx}{x^4 + 1}$$

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$$28. \int \frac{x^3 + 3x + 2}{(x^2 + 1)^2(x + 1)} dx$$

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$$29. \int \frac{x^4 dx}{(x^2 + a^2)(x^2 + b^2)}$$

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$$30. \int \frac{\cos \theta d\theta}{\sin^2 \theta - 5 \sin \theta}$$

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$$31. \int \frac{e^x dx}{e^{2x} + e^x - 2}$$

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$$32. \int \frac{\cos \theta d\theta}{(1 - \sin \theta)(2 - \sin \theta)}$$

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$$33. \text{ Evaluate : } \int \frac{x dx}{2x^4 - 3x^2 - 2}$$

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$$34. \int \frac{x^2 dx}{x^6 - 5x^3 + 6}$$

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$$35. \int \frac{(x^2 - 1) dx}{x^4 + x^2 + 1}$$

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36. $\int \frac{dx}{x(x^4 - 1)}$

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37. Write True or False

Simplified value of $(\sec \theta + \tan \theta)(1 - \sin \theta)$ is $\cos \theta$,

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

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

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$$40. \int \frac{dx}{x(a + bx^n)^2}$$

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$$41. \int \frac{dx}{\sin(x - a)\sin(x - b)}$$

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$$42. \int \frac{dx}{\sin 2x - \sin x}$$

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Multiple Correct Answers Type

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

A. $\sqrt{1-x}(\sqrt{x}-2) - \sin^{-1} \sqrt{x} + c$

B. $\sqrt{1-x}(\sqrt{x}-2) + \sin^{-1} \sqrt{x} + c$

C. $\sqrt{1-x}(\sqrt{x}-2) + \cos^{-1} \sqrt{x} + c$

D. $\sqrt{1-x}(\sqrt{x}-2) - \cos^{-1} \sqrt{x} + c$

Answer: A::C



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2. $\int \frac{\sin x}{\sin 4x} dx$

A. $\frac{1}{8} \log \left| \frac{1 + \sin x}{1 - \sin x} \right| + \frac{1}{4\sqrt{2}} \log \left| \frac{1 + \sqrt{2} \sin x}{1 - \sqrt{2} \sin x} \right| + c$

B. $\frac{1}{8} \log \left| \frac{1 - \sin x}{1 + \sin x} \right| + \frac{1}{4\sqrt{2}} \log \left| \frac{1 + \sqrt{2} \sin x}{1 - \sqrt{2} \sin x} \right| + c$

C. $-\frac{1}{8} \log \left| \frac{1 + \sin x}{1 - \sin x} \right| + \frac{1}{4\sqrt{2}} \log \left| \frac{1 + \sqrt{2} \sin x}{1 - \sqrt{2} \sin x} \right| + c$

D. $-\frac{1}{8} \log \left| \frac{1 + \sin x}{1 - \sin x} \right| - \frac{1}{4} \sqrt{2} \log \left| \frac{1 + \sqrt{2} \sin x}{1 - \sqrt{2} \sin x} \right| + c$

Answer: B::C

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3. if $I = \int \frac{x^2 + 20}{(x \sin x + 5 \cos x)^2} dx$, then I equals-

A. $-\frac{x}{\cos x(x \sin x + 5 \cos x)} + \tan x + c$

B. $\frac{x}{\sin x(x \sin x + 5 \cos x)} + \cot x + c$

C. $(x \sin x - 5 \cos x)^{-1} \sin x + 7x + c$

D. $-x \sec x(x \sin x + 5 \cos x)^{-1} + \cot\left(\frac{\pi}{2} - x\right) + c$

Answer: A:D

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4. $\int \frac{\cot x}{\sqrt{a + b \cot^2 x}} dx (0 < a < b)$,

A. $\sqrt{b} - a \sin^{-1}\left(\sqrt{b-a} \sin x\right) + c$

B. $\frac{1}{\sqrt{b-a}} \sin^{-1} \left(\sqrt{\frac{b-a}{b}} \sin x \right) + c$

C. $-\frac{1}{\sqrt{b-a}} \cos^{-1} \left(\sqrt{\frac{b-a}{b}} \sin x \right) + c$

D. $\sin^{-1} \left(\sqrt{b-ax} \right) + c$

Answer: B::C

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5.

if $\int \cos^7 x dx = A \sin^7 x + B \sin^5 x + C \sin^3 x + \sin x + k$, then –

A. $A = \frac{1}{7}$

B. $A = \frac{1}{7}$

C. $B = \frac{1}{5}$

D. $B = \frac{3}{5}$

Answer: B::D

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Integer Answer Type

1. if $\int \frac{dx}{4 + 5 \sin^2 x} = \frac{1}{k} \tan^{-1} \left(\frac{3}{2} \tan x \right) + c$, then the value of k is -

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2. $\int \frac{x^2}{2x^4 - 7x^2 - 4} dx$

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3. if $\int \operatorname{cosec}^{\frac{2}{3}} x \cos^3 x dx = k(\sin x)^{\frac{1}{3}} - \frac{3}{7}(\sin x)^{\frac{7}{3}} + c$ then the value of k is -

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4. if $\int \frac{x + 2}{x^2 - 3x + 2} dx = A \log|x - 2| - 3 \log|x - 1| + 3$ then

the value of A is-

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5. if $\int \frac{dx}{e^x(e^x + 1)^2} = \frac{2e^x + 1}{e^x(e^x + 1)} + k \log|1 + e^{-x}| + c$ then the

value of k is -

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Comprehension Type

1. $\int \frac{dx}{(x - 3)\sqrt{x}}$

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$$2. \int \frac{\sqrt{x}}{x+2} dx$$

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$$3. \int \frac{dx}{(x-1)\sqrt{2x+3}}$$

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$$4. \int \frac{dx}{\sqrt{5+x^2}}$$

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$$5. \int \frac{dx}{\sqrt{2-x^2}}$$

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6. $\int \frac{dx}{\sqrt{3 + 4x^2}}$



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