MATHS

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

INTEGRATION

Solved Example

1. Find $\int(2x^7)\,dx$ on R.

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2. Evaluate $\int\cot^2 x\,dx$ on $I \subset R\backslash\{n\pi : n \in Z\}$

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3. Evaluate

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

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4. Find $\int (1 - x)(4 - 3x)(3 + 2x) dx, x \in R.$

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5. Evaluate $\int \left(x + \frac{1}{x} \right)^3 dx, x > 0$

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6. $\int \sqrt{1 + \sin 2x} dx$ =

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7. Evaluate $\int \frac{2x^3 - 3x + 5}{2x^2} dx$ f or x gt 0` and verify the result by differentiation.

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8. $\int \frac{x^5}{1 + x^{12}} dx$

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9. Evaluate $\int \cos^3 x \sin x dx$ on R.

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10. Find $\int \left(1 - \frac{1}{x^2}\right) e^{\left(x + \frac{1}{x}\right)} dx$ on I where $I = (0, \infty)$.

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11. Evaluate $\int \frac{1}{\sqrt{\sin^{-1} x}\sqrt{1-x^2}} dx$ on $I = (0, 1)$

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12. Evaluate $\int \frac{\sin^4 x}{\cos^6 x} dx, x \in I \subset R \backslash \left\{ \frac{(2n+1)\pi}{2}, n \in z \right\}$.

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13. Evaluate $\int \sin^2 x dx$ on R.

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14. Evaluate $\int \frac{1}{a \sin x + b \cos x} dx$ where $a, b \in R$ and $a^2 + b^2 \neq 0$ on R.

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15. Find $\int \frac{x^2}{\sqrt{x+5}} dx$ on $(-5, \infty)$

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16. Find $\int \frac{x}{\sqrt{1-x}} dx, x \in I = (0, 1).$

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17. Evaluate $\int \frac{dx}{(x+5)\sqrt{x+4}}$

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18. $\int \frac{dx}{\sqrt{4-9x^2}} = ?$

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19. Evaluate $\int \frac{1}{a^2 - x^2} dx \quad \text{for} \quad x \in I = (-a, a)$

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20. Evaluate $\int \frac{1}{1 + 4x^2} dx \quad \text{on} \quad R.$

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

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22. Evaluate $\int \sqrt{4x^2 + 9} dx \quad \text{on} \quad R.$

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23. Evaluate $\int \sqrt{9x^2 - 25} dx on \left[\frac{5}{3}, \infty\right).$

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24. Evaluate $\int \sqrt{16-25x^2}dx$ on $\left(\frac{-4}{5}, \frac{4}{5}\right)$.

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25. Evaluate $\int x \sin^{-1} x dx$ on (-1,1) .

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26. Evaluate $\int x^2 \cos x dx$.

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27. Evaluate $\int e^x \sin x dx$ on R.

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28. Find $e^{ax}\cos(bx+c)dx on R$, where a,b,c are real number and $b \neq 0$.

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29. Evaluate $\int \tan^{-1}\sqrt{\frac{1-x}{1+x}}dx$, on (-1,1)

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30. Evaluate $\int e^x\left(\frac{1-\sin x}{1-\cos x}\right)dx$

on $I \subset R\backslash\{2n\pi : n \in z\}$.

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31. Evaluate $\int \tan^{-1}\left(\frac{2x}{1-x^2}\right)dx$

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32. Find $\int x^2 \cdot \left(\exp \frac{m \sin^{-1} x}{\sqrt{1-x^2}} dx \right.$ on $(-1, 1)$ where m is a real number . (Here for $Y \in R$, exp. {y} stands for e^y) .

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

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34. Find $\int \frac{dx}{5 - 2x^2 + 4x}$

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

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36. Evaluate $\int \frac{dx}{\sqrt{2x^2+10}}$,

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

Watch Video Solution

38. Evaluate $\int \sqrt{3x+8x-3x^2}dx$.

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39. Evaluate $\int \frac{x+1}{x^2+3x+12}dx$.

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

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41. Evaluate $\int \left(\frac{2x+5}{\sqrt{x^2-2x+10}} \right) dx.$

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42. Evaluate $\int \frac{dx}{(x+5)\sqrt{x+4}}.$

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

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44. $\int \frac{dx}{3\cos x + 4\sin x + 6}$

Watch Video Solution

45. Find $\int \frac{dx}{d + e\tan x}$.

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46. Evaluate $\int \frac{\cos x}{d\cos x + e\sin x} dx$ and $\int \frac{\cos x}{d\cos x + e\sin x} dx$.

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47. Evaluate $\int \frac{\cos x + 3\sin x + 7}{\cos x + \sin x + 1}$ dx .

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48. Find $\int \frac{x^3 - 2x + 3}{x^2 + x - 2}$ dx .

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49. Find $\int \frac{dx}{x^2 - 81}$.

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

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

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

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53. Evaluate $\int x^3 . e^{5x} dx.$

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54. Evaluate $\int \sin^4 x dx$.

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

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56. $\int \sec^5 x dx$.

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Solved Problems

1. Find $\int 2x^7$ dx on R.

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2. Evaluate $\int \cot^2 x dx on I \subset R/\{n\pi : n \in Z\}$.

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3. Evaluate $\int \left(\frac{x^6 - 1}{1 + x^2}\right) dx$ for $x \neq R$.

Watch Video Solution

4. Find $\int (1 - x)(4 - 3x)(3 + 2x) dx, x \in R$.

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5. Evaluate $\int \left(x + \frac{1}{x}\right) dx, x > 0$.

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6. Find $\int \sqrt{1 + \sin 2x} dx on R$. a

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7. Evaluate $\int \frac{2x^3 - 3x + 5}{2x^2} dx$ f or x gt 0` and verify the result by differentiation.

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8. Evaluate $\int \frac{x^5}{1 + x^{12}}$ dx on R.

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9. Evaluate $\int \cos^3 x \sin x s x on R.$

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10. Find $\int \left(1 - \frac{1}{x^2}\right) e^{\left(x + \frac{1}{x}\right)} dx$ on I where $I = (0, \infty)$.

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11. Evaluate $\int \frac{1}{\sqrt{\sin^{-1} x \sqrt{1-x^2}}} dx$ on $I = (0, 1)$.

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12. Evaluate $\int \frac{\sin^4 x}{\cos^6 x} dx$,
$x \in I \subset R \backslash \left\{ \frac{(2n+1)\pi}{2} : n \in z \right\}$.

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13. Evaluate $\int \sin^2 x dx$ on R.

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14. Evaluate $\int \frac{1}{a \sin x + b \cos x}$ dx where $a, b \in R$ and $a^2 + b^2 \neq 0 on R$.

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15. Find $\int \frac{x^2}{\sqrt{x+5}} dx \quad \text{on} \quad (-5, \infty)$

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16. Find $\int \frac{x^2}{\sqrt{x+5}} dx \quad \text{on} \quad (-5, \infty)$

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17. Evaluate $\int \frac{dx}{(x+5)\sqrt{x+4}} on(-4, \infty).$

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18. Evaluate $\int \frac{dx}{\sqrt{4-9x^2}} on 1 = \left(-\frac{2}{3}, \frac{2}{3}\right).$

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19. Evaluate $\int \frac{1}{a^2 - x^2} dx \quad \text{for} \quad x \in I = (-a, a)$

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20. Evaluate $\int \frac{1}{1 + 4x^2} dx \quad \text{on} \quad R.$

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21. Find $\int \frac{1}{\sqrt{4 - x^2}} dx on (-2, 2).$

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24. Evaluate $\int \sqrt{16-25x^2}dx on\left(\frac{-4}{5},\frac{4}{5}\right).$

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25. Evaluate `int x sin^(-1)x dx " on " (-1,1) .

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26. Evaluate $\int x^2 \cos x dx$

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27. Evaluate $\int e^x \sin x dx \quad \text{on} \quad R.$

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28. Evaluate `int x sin^(-1)x dx " on " (-1,1) .

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29. Evaluate $\int \tan^{-1}\sqrt{\frac{1-x}{1+x}}dx$, on (-1,1)

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30. Evaluate $\int e^x\left(\frac{1-\sin x}{1-\cos x}\right)dx$

on $I \subset R\backslash\{2n\pi : n \in z\}$.

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31. Evaluate $\int \tan^{-1}\left(\frac{2x}{1-x^2}\right)dx$

on $I \subset R\backslash\{-1, 1\}$.

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32. Find $\int x^2 \cdot \left(\exp \frac{m \sin^{-1} x}{\sqrt{1-x^2}} dx \right.$ on $(-1, 1)$ where m is a real number . (Here for $Y \in R$, exp. {y} stands for e^y) .

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

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37. Evaluate $\int \frac{dx}{\sqrt{1+x-x^2}}$. a

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40. Evaluate $\int \frac{2x+5}{\sqrt{x^2-2x+10}}dx$.

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41. Evaluate $\int \frac{dx}{(x+5)\sqrt{x+4}} on(-4, \infty).$

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42. $\int \frac{dx}{3\cos x + 4\sin x + 6}$

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44. Evaluate $\int \frac{\sin x}{d\cos x + e\sin x} dx$ and $\int \frac{\cos x}{d\cos x + e\sin x} dx.$

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45. Evaluate $\int \frac{\cos x + 3\sin x + 7}{\cos x + \sin x + 1}\, dx$.

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

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

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50. Evaluate $\int x^3 . e^{5x} dx.$

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51. Evaluate $\int \sin^4 x dx.$

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

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53. $\int \sec^5 x dx.$

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Textual Exercise 6 A

1. Evaluate the integerals.

$\int (x^3 - 2x^2 + 3)\, dx \, on R.$

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2. Evaluate the integerals.

$\int 2x\sqrt{x}dx \quad \text{on} \quad (0, \infty)$.

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3. Evaluate the integerals.

$\int \sqrt[3]{2x^2}dx \quad \text{on} \quad (0, \infty)$.

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4. Evaluate the integerals.

$$\int \frac{x^2 + 3x - 1}{2x} dx, x \in I \subset R\backslash\{0\}$$

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5. Evaluate the integerals.

$$\frac{1 - \sqrt{x}}{x} dx \quad \text{on} \quad (0, \infty)$$

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6. Evaluate the integerals.

$$\int \left(1 + \frac{2}{3}x - \frac{3}{x^2}\right) dx \text{on} \quad I \subset R\backslash\{0\}$$

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7. Evaluate the integerals.

$$\int \left(x + \frac{4}{1 + x^2}\right) dx \quad \text{on} \quad R.$$

Watch Video Solution

8. Evaluate the integerals.

$$\int\left(e^x-\frac{1}{x}+\frac{2}{\sqrt{x^2+1}}\right)dx \quad \text{on} \quad I\subset R\backslash[-1,1]$$

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9. Evaluate the integerals.

$$\int\left(\frac{1}{1-x^2}+\frac{1}{1+x^2}\right)dx \quad \text{on} \quad (-1,1)\,.$$

Watch Video Solution

10. Evaluate the integerals.

$$\int\left(\frac{1}{1-x^2}+\frac{2}{1+x^2}\right)dx \quad \text{on} \quad (-1,1)\,.$$

Watch Video Solution

11. Evaluate the integerals.

$$\int e^{\log\left(1+\tan^2 x\right)}\,dx \quad \text{on} \quad I \subset R \backslash \left\{ \frac{(2n+1)\pi}{2} : n \in Z \right\}.$$

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12. Evaluate the integerals.

$$\int \left(1-x^2\right)^3 dx \quad \text{on} \quad (-1, 1)$$

Watch Video Solution

13. Evaluate the integerals.

$$\int \left(\frac{3}{x} - \frac{2}{x} + \frac{1}{3x^2} \right) \text{dx on } (0, \infty)$$

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14. Evaluate the integerals.

$$\int \left(\frac{\sqrt{x}+1}{x} \right)^2 dx \quad \text{on} \quad (0, \infty)$$

Watch Video Solution

15. Evaluate the integerals.

$$\int \frac{(3x+1)^2}{2x} dx x \in I \subset R \backslash \{0\}$$

Watch Video Solution

16. Evaluate the integerals.

$$\int \left(\frac{2x-1}{3\sqrt{x}} \right) dx \quad \text{on} \quad (0, \infty)$$

Watch Video Solution

17. Evaluate the integerals.

$$\int \left(\frac{1}{\sqrt{x}} + \frac{2}{\sqrt{x^2-1}} - \frac{3}{2x^2} \right) dx \quad \text{on} \quad (1, \infty) .$$

Watch Video Solution

18. Evaluate the integerals.

$$\int(\sec^2 - \cos x + x^2)dx, x \in I \subset R\backslash\left\{\frac{n\pi}{2} : \text{n is an odd integer } \right\}.$$

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19. Evaluate the integerals.

$$\int\left(\sec xtnax + \frac{3}{x} - 4\right)dx, x \in I \subset R\backslash\left(\left\{\frac{n\pi}{2} : \text{n is an odd interger}\right\} \cup \{0\}\right.$$

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20. Evaluate the integerals.

$$\int\left(\sqrt{x} - \frac{2}{1-x^2}\right)dxon(0, 1).$$

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21. Evaluate the integerals.

$$\int\left(x^3 - \cos x + \frac{4}{\sqrt{x^2+1}}\right)dx, x \in R.$$

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22. Evaluate the integerals.

$$\int\left(\cos hx+\frac{1}{\sqrt{x^2+1}}\right)dx, x\in R$$

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23. Evaluate the integerals.

$$\int\left(\sin hx+\frac{1}{(x^2-1)^{\frac{1}{2}}}\right)dx.$$

$x\in I\subset(-\infty,-1)\cup(1,\infty)$

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24. Evaluate the integerals.

$$\int\frac{(a^x-b^x)^2}{a^xb^x}dx,$$

$(a>0, a\neq 1 \text{ and } b>0, b\neq 1) on R.$

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25. Evaluate the integerals.

$\in e \sec^2 x \cos ec^2 x dx on I \subset R \backslash$

$\left(\{n\pi : n \in Z\} \cup \left\{(2n+1)\left(\pi \frac{0}{2} : n \in z\right\}\right)\right).$

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26. Evaluate : $\int \frac{1+\cos^2 x}{1-\cos 2x} dx, \quad \text{on} \quad \subset R/\{n\pi : n \in z\}$

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27. Evaluate the integerals.

$\int \sqrt{1-\cos 2x} dx on$

$I \subset [2n\pi, (2n+1)\pi], n \in Z.$

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28. Evaluate the integerals.

$$\int \frac{1}{\cos hx + \sin hx} dx on R.$$

Watch Video Solution

29. Evaluate the integerals.

$$\int \frac{1}{1 + \cos x} dx on$$

$$I \subset \backslash \{(2n+1)\pi : \in Z\}.$$

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Textual Exercise 6 B

1. Evaluate the integerals.

$$\int e^{2x} dx, x \in R.$$

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2. Evaluate the integerals.

$\int \sin 7x dx, x \in R.$

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3. Evaluate the integerals.

$\int \frac{x}{1+x^2} dx, x \in R.$

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4. Evaluate the integerals.

$\int 2x \sin\left(x^2+1\right) dx, x \in R.$

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5. Evaluate the integerals.

$\int \frac{(\log x)^2}{x} dx on I \subset (0, \infty).$

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6. Evaluate the integerals.

$$\int \frac{e^{\tan^{-1} x}}{1+x^2} dx on I \subset (0, \infty).$$

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7. Evaluate the integerals.

$$\int \frac{\sin\left(\tan^{-1} x\right)}{1+x^2} dx, x \in R.$$

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8. Evaluate the integerals.

$$\int \frac{1}{8+2x^2} dx on R.$$

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9. Evaluate the integerals.

$$\int \frac{3x^2}{1+x^6} dx, \, on R.$$

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10. Evaluate the integerals.

$$\int \frac{2}{\sqrt{25+9x^2}} dx on R.$$

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11. Evaluate the integerals.

$$\int \frac{3}{\sqrt{9x^2-1}} dx on \left(\frac{1}{3}, \infty\right).$$

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12. Evaluate the integerals.

$f \sin mx \cos nx dx on R, \, m \neq n, \, m$ and n are positive intergers.

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13. Evaluate the integerals.

$f \sin mx \sin nx dx on R, m \neq n, m$ and n are positve intergers.

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14. Evaluate the integerals.

$f \cos mx \cos nx dx on R, m \neq n, m$ and n are positive integers.

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15. Evaluate the integerals.

$f \sin x \sin 2x . \sin 3x dx on R.$

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16. Evaluate the integerals.

$$\int \frac{\sin x}{\sin(a+x)} dx on I \subset R \backslash \{n\pi - a : n \in Z\}.$$

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17. Evaluate the integerals.

$$\int (2x-2)^{\frac{1}{2}} dx on \left(\frac{2}{3}, \infty\right)$$

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18. Evaluate the integerals.

$$\int \frac{1}{7x+3} dx on I \subset R \backslash \left\{-\frac{3}{7}\right\}.$$

Watch Video Solution

19. Evaluate the integerals.

$$\int \frac{\log(1+x)}{1+x} dx on (-1, \infty).$$

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20. Evaluate the integerals.

$\int (3x^2 - 4) \times dx on R.$

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21. Evaluate the integerals.

$\int \frac{dx}{\sqrt{1+5x}} dx on \left(-\frac{1}{5}, \infty \right)$

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22. Evaluate the integerals.

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

Watch Video Solution

23. Evaluate the integerals.

$$\int \frac{\sec^2 x}{(1+\tan x)^3} dx$$

on $I \subset R \backslash \left\{ n\pi - \frac{\pi}{4} : n \in Z \right\}$.

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24. Evaluate the integerals.

$$\int x^3 \sin x^4 dx on R.$$

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25. Evaluate the integerals.

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

$$I \subset R \backslash \left\{ 2n\pi + \frac{3\pi}{2} : n \in Z \right\}.$$

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26. Evaluate the integerals.

$\int 3\sqrt{\sin x}\cos x dx on [2n\pi, (2n+1)[i], (n \in Z).$

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27. Evaluate the integerals.

$\int 2xe^{x^2} dx on R.$

Watch Video Solution

28. Evaluate the integerals.

$\int \frac{e^{\log x}}{x} dx on (0, \infty).$

Watch Video Solution

29. Evaluate the integerals.

$\int \frac{x^2}{\sqrt{1-x^6}} dx on I = (-1, 1).$

Watch Video Solution

30. Evaluate the integerals.

$$\int \frac{2x^3}{\sqrt{1-x^8}} dx on R.$$

Watch Video Solution

31. Evaluate the integerals.

$$\int \frac{x^8}{1+x^{18}} dx on R.$$

Watch Video Solution

32. Evaluate the integerals.

$$\int \frac{e^x(1+x)}{\cos^2(ex^x)} dx on I \subset R \backslash$$

$$\{x \in R : \cos(xe^x) = 0\}.$$

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33. Evaluate the integerals.

$$\int \frac{\cos ec^2 x}{(a+b\cot x)^5} dx on I \subset R \backslash$$

$\{x \in R : a + b\cot x = 0\}$, where $a, b \in R, b \neq 0$.

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34. Evaluate the integerals.

$$\int e^x \sin e^x dx on R.$$

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35. Evaluate the integerals.

$$\int \frac{\sin(\log x)}{x} dx on (-1, \infty)$$

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36. Evaluate the integerals.

$$\int \frac{1}{x \log x} dx on(-1, \infty)$$

Watch Video Solution

37. Evaluate the integerals.

$$\int \frac{\cos(\log x)}{x} dx on(0, \infty).$$

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38. Evaluate the integerals.

$$\int \frac{\cos \sqrt{x}}{\sqrt{x}} dx on(0, \infty).$$

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39. Evaluate the integerals.

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

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40. Evaluate the integrals.

$$\int \frac{1}{x \log x [\log(\log x)]} dx \text{ on } (1, \infty)$$

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41. Evaluate the integerals.

$$\int \cot h x dx on R.$$

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42. Evaluate the integerals.

$$\int \frac{1}{\sqrt{1-4x^2}} dx on \left(-\frac{1}{2}, \frac{1}{2} \right).$$

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43. Evaluate the integerals.

$$\int \frac{dx}{\sqrt{25+x^2}} on R.$$

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44. Evaluate the integerals.

$$\int \frac{1}{(x+3)\sqrt{x+2}} dx on I \subset (-2, \infty).$$

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45. Evaluate the integerals.

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

on $I \subset R \backslash \left\{ \frac{n\pi}{2} + (-1)^n \frac{\pi}{4} : n \in Z \right\}$.

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46. Evaluate the integerals.

$\int \frac{x^2+1}{x^4+1}$ dx on R.`

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47. Evaluate the integerals.

$\int \frac{dx}{\cos^2 x + \sin 2x} on I \subset R \backslash$

$\left(\{2n+1)\frac{\pi}{2} : n \in Z\right\} \cup \left\{2n\pi + \frac{\tan^{-1} 1}{2} : n \in Z\right\}\Big)$

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48. Evaluate the integerals.

$\int \sqrt{1-\sin 2x} dx on$

$I \subset \left\{2n\pi - \frac{3\pi}{4}, 2n\pi + \frac{\pi}{4}\right\}, n \in Z.$

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49. Evaluate the integerals.

$$\int \sqrt{1+\cos 2x}\, dx \, on$$

$$I \subset \left\{2n\pi - \frac{\pi}{2}, 2n\pi + \frac{\pi}{2}\right\}. n \in Z$$

Watch Video Solution

50. Evaluate the integerals.

$$\int \frac{\cos x + \sin x}{\sqrt{1+\sin 2x}} dx \, onj$$

$$I \subset \left\{2n\pi - \frac{\pi}{4}, 2np, i + \frac{3\pi}{4}\right\}, n \in Z.$$

Watch Video Solution

51. Evaluate the integerals.

$$\int \frac{\sin 2x}{(a+b\cos x)^2} dx \, on \{R, \quad \text{if} \quad |a| > |b|$$

$$I \subset \{x \in R : a + b\cos x \neq 0\}, \quad \text{if} \quad |a| < |b|.$$

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52. Evaluate the integerals.

$$\int \frac{\sec x}{(\sec x + \tan x)^2} dx on$$

$$I \subset R \backslash \left\{ (2n+1)\frac{\pi}{2} : n \in Z \right\}.$$

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53. Evaluate the integerals.

$$\int \frac{dx}{a^2 \sin^2 x + b^2 \cos^2 x} on R,\ a \neq 0, b \neq 0.$$

Watch Video Solution

54. Evaluate the integerals.

$$\int \frac{dx}{\sin(x-a)\sin(x-b)} on I \subset R \backslash$$

$$(\{a + n\pi : \in Z\} \cup \{b + n\pi : n \in Z\}).$$

Watch Video Solution

55. Evaluate the integerals.

$$\int \frac{1}{\cos(x-a)\cos(x-b)} dx on I \subset R \backslash$$
$$\left(\left\{ a + \frac{(2n+1)\pi}{2} : n \in Z \right\} \cup \left\{ b + \frac{(2n+1)}{2}\pi : n \in Z \right\} \right).$$

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56. Evaluate the integerals.

$$\int \frac{\sin 2x}{a\cos^2 x + b\sin^2 x} dx on I \subset R \backslash$$
$$\{x \in R \mid a\cos^2 x + b\sin^2 x = 0\}.$$

Watch Video Solution

57. Evaluate the integerals.

$$\int \frac{\cos(\log x)}{x} dx,$$
$$x \in I \subset (0, \infty) \backslash \{e^{n\pi} : n \in Z).$$

Watch Video Solution

58. Evaluate the integerals.

$$\int e^x . \cot e^x dx, x \in I \subset \backslash \{\log n\pi : n \in X\}.$$

Watch Video Solution

59. Evaluate the integrals.

$$\int \sec x (\tan x)^2 dx, on I \subset .$$
$$\left\{ x \in E : \tan x \neq \frac{(2k+1)\pi}{2} : n \in Z \right\}.$$

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60. Evaluate the integerals.

$$\int \sqrt{\sin x} \cos x dx on [2n\pi, (2n+1)\pi],$$

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61. Evaluate the integerals.

$$\int \tan^4 x \sec^2 x dx, x \in I \subset R \backslash \left\{ \frac{(2n+1)\pi}{2} : n \in Z \right\}.$$

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62. Evaluate the integerals.

$$\int \frac{2 \times +3}{\sqrt{x^2+3x-4}} dx, x \in I \subset R \backslash [-4, q].$$

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63. Evaluate the integerals.

$$\int \cos ec^2 x \sqrt{\cot x} dx on \left(0, \frac{\pi}{2}\right]$$

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64. Evaluate the integerals.

$$\int \sec x \log(\sec x + \tan x) dx on \left(0, \frac{\pi}{2}\right).$$

Watch Video Solution

65. Evaluate the integerals.

$$\int \sin^3 x dx on R.$$

Watch Video Solution

66. Evaluate the integerals.

$$\int \cos^3 x dx on R.$$

Watch Video Solution

67. Evaluate the integerals.

$$\int \cos x \cos 2x dx on R.$$

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68. Evaluate the integerals.

$\int \cos x \cos 3x dx on R.$

Watch Video Solution

69. Evaluate the integerals.

$\int \cos^4 x dx on R.$

Watch Video Solution

70. Evaluate the integerals.

$\int x\sqrt{4x+3} dx on \left(-\frac{3}{4}, \infty\right).$

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71. Evaluate the integerals.

$$\int \frac{dx}{\sqrt{a^2-(b+cx)^2}} on\{x \in R: |b+cx| < a\}.$$

where a,b,c are real nambers $c \neq 0$ and $a > 0$.

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72. Evaluate the integerals.

$$\int \frac{dx}{a^2+(b+cx)^2}$$ on R, where a,b,c are real numbers, $c \neq 0$ and $a > 0$.

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73. Evaluate the integerals.

$$\int \frac{dx}{1+e^x}, x \in R$$

Watch Video Solution

74. Evaluate the integerals.

$$\int \frac{x^2}{(a+bx)^2} dx, x \in I \subset R \backslash \left\{ -\frac{a}{b} \right\}, where a, b, are real numbers, b$$

ne0.`

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75. Evaluate the integerals.

$$\int \frac{x^2}{\sqrt{1-x}} dx, x \in (-\infty, 1).$$

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Textual Exercise 6 C

1. Evaluate the integerals.

$$\int x \sec^2 x dx$$

$$on I \subset R \backslash \left\{ \frac{(2n+1)\pi}{2} : n \text{ in a n integer} \right\}.$$

Watch Video Solution

2. Evaluate the integerals.

$$\int e^x \left(\tan^{-1} x + \frac{1}{1+x^2} \right) dx, x \in R.$$

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3. Evaluate the integerals.

$$\int \frac{\log x}{x^2} dx on (0, \infty).$$

Watch Video Solution

4. Evaluate the integerals.

$$\int (\log x)^2 dx (0, \infty).$$

Watch Video Solution

5. Evaluate the integrals.

$\int e^x(\sec x + \sec x \tan x)dx$ on $I \subset R - \left\{(2n+1)\frac{\pi}{2} : n \in Z\right\}$.

Watch Video Solution

6. Evaluate the integerals.

$\int e^x \cos x dx on R.$

Watch Video Solution

7. Evaluate the integerals.

$\int e^x(\sin x + \cos x)dx on R.$

Watch Video Solution

8. Evaluate the integerals.

$\int (\tan x + \log \sec x)e^x dx on$

$\left(\left(2n-\frac{1}{2}\right)\pi,\left(2n+\frac{1}{2}\right)\pi\right)n\in Z.$

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9. Evaluate the integerals.

$\int x^n \log x dx on(0,\infty),$ n is a real nuber and $n \neq -1.$

Watch Video Solution

10. Evaluate the integerals.

$\int \log(1+x^2)dx on R.$

Watch Video Solution

11. Evaluate the integerals.

$\int \sqrt{x}\log x dx on(0,\infty).$

Watch Video Solution

12. Evaluate the integerals.

$\int e^{\sqrt{x}} dx on (0, \infty).$

Watch Video Solution

13. Evaluate the integerals.

$\int x^2 \cos x dx on R.$

Watch Video Solution

14. Evaluate the integerals.

$\int x \sin^2 x dx on R.$

Watch Video Solution

15. Evaluate the integerals.

$\int x \cos^2 x dx on R.$

Watch Video Solution

16. Evaluate the integerals.

$\int \cos \sqrt{x} dx on R.$

Watch Video Solution

17. Evaluate the integerals.

$\int x se x^2 2x dx on I \subset R \backslash$

$\left\{(2n\pi + 1)\frac{\pi}{4} : n \in Z\right\}.$

Watch Video Solution

18. Evaluate the integerals.

$\int x \cot^2 x dx on I \subset R \backslash \{n\pi : n \in Z\}.$

Watch Video Solution

19. Evaluate the integerals.

$$\int e^x \left(\tan x + \sec^2 x\right) dx$$

$$on I \subset R \backslash \left\{(2n+1)\frac{\pi}{2} : n \in Z\right\}.$$

Watch Video Solution

20. Evaluate the integerals.

$$\int e^x \left(\frac{1 + x \log x}{x}\right) dx on (0, \infty).$$

Watch Video Solution

21. Evaluate the integerals.

$$\int e^{ax} \sin bx dx on R, a, b, \in R.$$

Watch Video Solution

22. Evaluate the integerals.

$$\int \frac{x . e^x}{(x+1)^2} dx on I \subset R \backslash \{-1\}$$

Watch Video Solution

23. Evaluate the integerals.

$$\int \frac{dx}{\left(x^2+a^2\right)^2}, (a>0) on R.$$

Watch Video Solution

24. Evaluate the integerals.

$$\int e^x \log\left(e^{2x}+5e^x+6\right) dx on R.$$

Watch Video Solution

25. Evaluate the integerals.

$$\int \cos(\log x) dx on (0, \infty).$$

Watch Video Solution

26. Evaluate the integerals.

$\int x \tan^{-1} x dx, x \in R.$

Watch Video Solution

27. Evaluate the integerals.

$\int \frac{\tan^{-1} x}{x^2} dx, x \in I \subset R \backslash \{0\}.$

Watch Video Solution

28. Evaluate the integerals.

$\int x \cos^{-1} x dx, x \in (-1, 1).$

Watch Video Solution

29. Evaluate the integerals.

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

Watch Video Solution

30. Evaluate the integerals.

$\int x \log(1+x)dx, x \in (-1, \infty).$

Watch Video Solution

31. Evaluate the integerals.

$\int \sin \sqrt{x} dx, on (0, \infty).$

Watch Video Solution

32. Evaluate the integerals.

$\int a^x \cos 2x dx on R(a > \text{ and } a \neq 1).$

Watch Video Solution

33. Evaluate the integerals.

$$\int \tan^{-1}\left(\frac{3x - x^3}{1 - 3x^2}\right) dx on I \subset R \setminus \left\{-\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}\right\}.$$

Watch Video Solution

34. Evaluate the integerals.

$$\int \sin h^{-1} x dx on R.$$

Watch Video Solution

35. Evaluate the integerals.

$$\int \cos h^{-1} x dx on [1, \infty].$$

Watch Video Solution

Textual Exercise 6 D

1. Evaluate the integerals.

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

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2. Evaluate the integerals.

$$\int \frac{\cos x}{si^2 x + 4\sin x + 5} dx$$

Watch Video Solution

3. Evaluate the integerals.

$$\int \frac{\cos x}{si^2 x + 4\sin x + 5} dx$$

Watch Video Solution

4. Evaluate the integerals.

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

Watch Video Solution

5. Evaluate the integerals.

$$\int \frac{1}{1+\tan x}\,dx$$

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6. Evaluate the integerals.

$$\int \frac{1}{1-\cot x}\,dx$$

Watch Video Solution

7. $$\int \frac{9\cos x - \sin x}{4\sin x + 5\cos x}\,dx$$

Watch Video Solution

8. Evaluate the integerals.

$$\int \frac{2\cos x + 3\sin x}{4\cos x + 5\sin x} dx$$

Watch Video Solution

9. Evaluate the integerals.

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

Watch Video Solution

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

Watch Video Solution

11. Evaluate the integerals.

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

Watch Video Solution

12. Evaluate the integerals.

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

Watch Video Solution

13. $\int (6x+5)\sqrt{6-2x^2+x}dx$

Watch Video Solution

14. Evaluate the integerals.

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

Watch Video Solution

15. Evaluate the integerals.

$$\int \frac{1}{2-3\cos 2x} dx$$

Watch Video Solution

16. Evaluate the integerals.

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

Watch Video Solution

17. Evaluate the integerals.

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

Watch Video Solution

18. Evaluate the integerals.

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

Watch Video Solution

19. Evaluate the integerals.

$$\int \frac{1}{\sin x + \sqrt{3}\cos x} dx$$

Watch Video Solution

20. Evaluate the integerals.

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

Watch Video Solution

21. $\int \frac{2\sin x + 3\cos x + 4}{3\sin x + 4\cos x + 5} dx.$

Watch Video Solution

22. Evaluate the integerals.

$$\int \sqrt{\frac{5-x}{x-2}} dx on (2, 5)$$

Watch Video Solution

23. Evaluate the integerals.

$$\int \sqrt{\frac{1+x}{1-x}}\, dx on(-1, 1).$$

Watch Video Solution

24. Evaluate the integerals.

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

Watch Video Solution

25. Evaluate the integerals.

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

Watch Video Solution

26. Evaluate the integerals.

$$\int \frac{dx}{(2x+3)\sqrt{x+2}} on I \subset (-2, \infty) \backslash \left\{ \frac{-3}{2} \right\}.$$

Watch Video Solution

27. Evaluate the integerals.

$$\int \sqrt{e^x - 4} dx on [\log_e 4, \infty].$$

Watch Video Solution

28. Evaluate the integrals.

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

on $\left[\left(2n - \frac{1}{2} \right) \pi, \left(2n + \frac{1}{2} \right) \pi \right], (n \in Z).$

Watch Video Solution

29. Evaluate the integerals.

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

Watch Video Solution

Textual Exercise 6 E

1. Evaluate the integerals.

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

Watch Video Solution

2. Evaluate the integerals.

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

Watch Video Solution

3. Evaluate the integerals.

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

Watch Video Solution

4. Evaluate the integerals.

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

Watch Video Solution

5. Evaluate the integerals.

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

Watch Video Solution

6. Evaluate the integerals.

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

Watch Video Solution

7. Evaluate the integerals.

$$\int \frac{1}{e^x - 1} dx$$

Watch Video Solution

8. Evaluate the integerals.

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

Watch Video Solution

9. Evaluate the integerals.

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

Watch Video Solution

10. Evaluate the integerals.

$$\int \frac{dx}{6x^2 - 5x + 1}$$

Watch Video Solution

11. Evaluate the integerals.

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

Watch Video Solution

12. Evaluate the integerals.

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

Watch Video Solution

13. Evaluate the integerals.

$$\int \frac{7x - 4}{(x-1)^2(x+2)} dx$$

Watch Video Solution

14. Evaluate the integerals.

$$\int \frac{1}{(a-x)(x-b)(x-c)} dx$$

Watch Video Solution

15. Evaluate the integerals.

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

Watch Video Solution

16. Evaluate the integerals.

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

Watch Video Solution

17. Evaluate the integerals.

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

Watch Video Solution

18. Evaluate the integerals.

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

Watch Video Solution

Textual Exercise 6 F

1. Evaluate the integerals.

$$\int e^x \left(1 + x^2\right) dx$$

Watch Video Solution

2. Evaluate the integerals.

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

Watch Video Solution

3. Evaluate the integerals.

$\int x^3 e^{ax} dx$ a

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4. Show that

$\int x^n . e^{-x} dx = -x^n e^{-x} + n \int x^{n-1} . e^{-x} dx$

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5. Show that

If $I_n = \int \cos^n x dx$, then show that

$I_n = \frac{1}{n}\cos^{n-1} x \sin x + \frac{n-1}{n} I_{n-2}.$

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6. Obtain reduction formula for $I_n = \int \cot^n x dx$, n being a positive integer , $n \geq 2$ and deduce the value of $\int \cot^4 x dx$.

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7. Obtain reduction formula for

$I_n = \int \cos ec^n x dx$, n being a positive integer, $n \geq 2$ and deduce the value of $\int \cos ec^5 x dx$.

Watch Video Solution

8. Evaluate $\int_0^{\pi/2} \sin^5 x \cos^4 x dx$

Watch Video Solution

9. Obtain reduction formula for

If $I_n = \int (\log x)^n dx$, then show that

$I_n = x(\log x)^n - nI_{n-1}$, and hence field $\int (\log x)^4 dx$.

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Dam Sure Vsaq 2 Marks

1. $\int \left(\frac{1}{1-x^2} + \frac{2}{1+x^2} \right) dx on(-1, 1)$

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2. $\int \sec^2 x \cos ec^2 x dx on I \subset R \setminus$

$\left(\{n\pi : n \in Z\} \cup \left\{ (2n+1)\frac{\pi}{2}, n \in Z \right\} \right)$.

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3. Evaluate : $\int \frac{1+\cos^2 x}{1-\cos 2x} dx, \quad \text{on} \quad \subset R/\{n\pi : n \in z\}$

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4. Evaluate the integerals.

$\int \sqrt{1-\cos 2x} dx on$

$I \subset [2n\pi, (2n+1)\pi], n \in Z.$

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5. Evaluate the integerals.

$\int \frac{1}{\cos hx + \sin hx} dx on R.$

Watch Video Solution

6. $\int \frac{1}{1+\cos x} dx on$

$I \subset R \backslash \{(2n+1)\pi : n \in Z\}.$

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7. $\int \frac{\sin\left(\tan^{-1} x\right)}{1+x^2} dx, x \in R.$

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8. $\int \frac{\log(1+x)}{1+x} dx on(-1, \infty).$

Watch Video Solution

9. $\int \frac{x^2}{\sqrt{1-x^6}} dx on I = (-1, 1).$

Watch Video Solution

10. $\int \frac{x^8}{1+x^{18}} dx on R.$

Watch Video Solution

11. $\int \frac{1}{x \log x [\log(\log x)]} dx on (1, \infty).$

Watch Video Solution

12. $\int \frac{1}{(x+3)\sqrt{x+2}} dx on I \subset (-2, \infty).$

Watch Video Solution

13. $\int \frac{\cot(\log x)}{x} dx,$

$x \in I \subset (0, \infty) \backslash \{e^{n\pi} : n \in Z\}.$

Watch Video Solution

14. Evaluate the integerals.

$\int e^x \left(\tan x + \sec^2 x\right) dx$

$on I \subset R \backslash \left\{(2n+1)\frac{\pi}{2} : n \in Z\right\}.$

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15. $\int \sqrt{x} \log x dx on (0, \infty).$

Watch Video Solution

16. Evaluate the integerals.

$\int e^x \left(\tan x + \sec^2 x\right) dx$

$on I \subset R \backslash \left\{(2n+1)\frac{\pi}{2} : n \in Z\right\}.$

Watch Video Solution

17. Evaluate the integerals.

$\int e^x \left(\frac{1 + x \log x}{x}\right) dx on (0, \infty).$

Watch Video Solution

18. Evaluate the integerals.

$\int \frac{\cos x}{si^2 x + 4 \sin x + 5} dx$

Watch Video Solution

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

Watch Video Solution

20. Evaluate the integerals.

$\int \frac{e^x(1+x)}{\cos^2(ex^x)} dx on I \subset R \backslash$

$\{x \in R : \cos(xe^x) = 0\}.$

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Dam Sure Saq 4 Marks

1. $\int x \tan^{-1} x dx, x \in R.$

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2. Evaluate: $\int \sqrt{1+3x-x^2}dx$

Watch Video Solution

3. $\int \frac{9\cos x - \sin x}{4\sin x + 5\cos x}dx$

Watch Video Solution

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

Watch Video Solution

5. Obtain reduction formula for $I_n = \int \cot^n x dx$, n being a positive integer , $n \geq 2$ and deduce the value of $\int \cot^4 x dx.$

Watch Video Solution

6. Obtain reduction formula for

$I_n = \int \cos ec^n x dx, n$ being a positive integer, $n \geq 2$ and deduce the value of $\int \cos ec^5 x dx$.

Watch Video Solution

7. Evaluate $\int \frac{2x+5}{\sqrt{x^2-2x+10}} dx$.

Watch Video Solution

8. Evaluate $\int \sin^4 x dx$.

Watch Video Solution

Dam Sure Laq 8 Marks

1. Evaluate the integerals.

$$\int \frac{2\cos x + 3\sin x}{4\cos x + 5\sin x} dx$$

Watch Video Solution

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

Watch Video Solution

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

Watch Video Solution

4. Evaluate the integerals.

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

Watch Video Solution

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

Watch Video Solution

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

Watch Video Solution

7. $\int \frac{2\sin x + 3\cos x + 4}{3\sin x + 4\cos x + 5} dx.$

Watch Video Solution

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

Watch Video Solution

9. $\int \frac{dx}{3\cos x + 4\sin x + 6}$

Watch Video Solution