

$$\begin{array}{lll}
5.13. \int \frac{\sqrt{5} dx}{\sqrt{3-4x^2}}. & 5.14. \int \frac{dx}{\sqrt{2x^2-9}}. & 5.15. \int \frac{dx}{\sqrt{2x^2+7}}. \\
5.16. \int \frac{dx}{\sqrt{3x^2+2}}. & 5.17. \int \frac{dx}{3x^2+2}. & 5.18. \int \frac{\sqrt{2} dx}{\sqrt{7-2x^2}}. \\
5.19. \int \frac{\sqrt{14} dx}{2x^2-7}. & 5.20. \int \frac{dx}{8x^2+9}. & 5.21. \int \frac{dx}{3x^2-2}. \\
5.22. \int \frac{dx}{4x^2+3}. & 5.23. \int \frac{dx}{\sqrt{4x^2+3}}. & 5.24. \int \frac{dx}{\sqrt{3-4x^2}}. \\
5.25. \int \frac{dx}{\sqrt{9-8x^2}}. & 5.26. \int \frac{dx}{4x^2-3}. & 5.27. \int \frac{dx}{8x^2-9}. \\
5.28. \int \frac{dx}{4x^2+7}. & 5.29. \int \frac{2 dx}{4+3x^2}. & 5.30. \int \frac{2 dx}{\sqrt{4x^2-3}}.
\end{array}$$

6.

$$\begin{array}{lll}
6.1. \int \frac{2x dx}{\sqrt{5-4x^2}}. & 6.2. \int \frac{x dx}{\sqrt{5-3x^2}}. & 6.3. \int \frac{3x dx}{4x^2+1}. \\
6.4. \int \frac{4x dx}{\sqrt{3-4x^2}}. & 6.5. \int \frac{2x dx}{\sqrt{8x^2-9}}. & 6.6. \int \frac{4x dx}{\sqrt{4x^2+3}}. \\
6.7. \int \frac{x dx}{\sqrt{9-8x^2}}. & 6.8. \int \frac{\sqrt{3}x dx}{\sqrt{3x^2-2}}. & 6.9. \int \frac{2x dx}{\sqrt{3x^2-2}}. \\
6.10. \int \frac{2x dx}{\sqrt{7-2x^2}}. & 6.11. \int \frac{x dx}{2x^2-7}. & 6.12. \int \frac{x dx}{3x^2+8}. \\
6.13. \int \frac{2x dx}{3x^2-7}. & 6.14. \int \frac{2x dx}{\sqrt{2x^2+5}}. & 6.15. \int \frac{x dx}{\sqrt{7-3x^2}}. \\
6.16. \int \frac{x dx}{2x^2+9}. & 6.17. \int \frac{5x dx}{\sqrt{3-5x^2}}. & 6.18. \int \frac{x dx}{\sqrt{3x^2+8}}.
\end{array}$$

$$\begin{array}{lll}
6.19. \int \frac{5x dx}{\sqrt{5x^2 + 3}} & 6.20. \int \frac{x dx}{3x^2 - 6} & 6.21. \int \frac{x dx}{5x^2 + 1} \\
6.22. \int \frac{5x dx}{5x^2 - 3} & 6.23. \int \frac{x dx}{2x^2 - 7} & 6.24. \int \frac{9x dx}{\sqrt{1 - 9x^2}} \\
6.25. \int \frac{3x dx}{9x^2 + 2} & 6.26. \int \frac{5x dx}{\sqrt{7x^2 - 1}} & 6.27. \int \frac{3x dx}{\sqrt{9x^2 + 5}} \\
6.28. \int \frac{2x dx}{5x^2 - 3} & 6.29. \int \frac{x dx}{3x^2 - 2} & 6.30. \int \frac{7x dx}{7x^2 + 1}
\end{array}$$

7.

$$\begin{array}{lll}
7.1. \int \frac{dx}{\sqrt{2 - 5x^2}} & 7.2. \int \frac{dx}{2x^2 - 5} & 7.3. \int \frac{dx}{\sqrt{7x^2 - 3}} \\
7.4. \int \frac{dx}{5x^2 + 2} & 7.5. \int \frac{dx}{2x^2 + 3} & 7.6. \int \frac{dx}{\sqrt{5x^2 + 1}} \\
7.7. \int \frac{dx}{2x^2 + 9} & 7.8. \int \frac{dx}{\sqrt{9 - 2x^2}} & 7.9. \int \frac{dx}{\sqrt{9x^2 + 2}} \\
7.10. \int \frac{dx}{5x^2 - 4} & 7.11. \int \frac{dx}{3x^2 - 7} & 7.12. \int \frac{dx}{3x^2 + 7} \\
7.13. \int \frac{dx}{6x^2 - 7} & 7.14. \int \frac{dx}{7x^2 + 6} & 7.15. \int \frac{dx}{\sqrt{7 - 3x^2}} \\
7.16. \int \frac{dx}{6x^2 + 1} & 7.17. \int \frac{dx}{\sqrt{5x^2 - 1}} & 7.18. \int \frac{dx}{3x^2 - 5} \\
7.19. \int \frac{dx}{\sqrt{2 - 3x^2}} & 7.20. \int \frac{dx}{\sqrt{8 - 3x^2}} & 7.21. \int \frac{dx}{\sqrt{3x^2 + 8}} \\
7.22. \int \frac{dx}{\sqrt{3x^2 + 2}} & 7.23. \int \frac{dx}{2x^2 + 7} & 7.24. \int \frac{dx}{4x^2 - 3}
\end{array}$$

$$\begin{array}{lll}
7.25. \int \frac{dx}{3x^2 + 4}. & 7.26. \int \frac{dx}{\sqrt{8x^2 - 9}}. & 7.27. \int \frac{dx}{\sqrt{5 - 4x^2}}. \\
7.28. \int \frac{dx}{\sqrt{1 - 3x^2}}. & 7.29. \int \frac{dx}{\sqrt{4x^2 + 5}}. & 7.30. \int \frac{dx}{3x^2 - 2}.
\end{array}$$

8.

$$\begin{array}{lll}
8.1. \int e^{2x-7} dx. & 8.2. \int e^{3+5x} dx. & 8.3. \int e^{2-3x} dx. \\
8.4. \int e^{2x+1} dx. & 8.5. \int e^{7x-2} dx. & 8.6. \int e^{5x-7} dx. \\
8.7. \int e^{5x+7} dx. & 8.8. \int e^{7-2x} dx. & 8.9. \int e^{3-4x} dx. \\
8.10. \int e^{10x+2} dx. & 8.11. \int e^{2x-10} dx. & 8.12. \int e^{4x+3} dx. \\
8.13. \int e^{4x+5} dx. & 8.14. \int e^{6x-1} dx. & 8.15. \int e^{5-2x} dx. \\
8.16. \int e^{4-3x} dx. & 8.17. \int e^{3-5x} dx. & 8.18. \int e^{1-4x} dx. \\
8.19. \int e^{2-5x} dx. & 8.20. \int e^{6x-4} dx. & 8.21. \int e^{8x+1} dx. \\
8.22. \int e^{2-6x} dx. & 8.23. \int e^{2-4x} dx. & 8.24. \int e^{3-6x} dx. \\
8.25. \int e^{4-5x} dx. & 8.26. \int e^{5-x} dx. & 8.27. \int e^{7+3x} dx. \\
8.28. \int e^{2x+3} dx. & 8.29. \int e^{8x+1} dx. & 8.30. \int e^{4-7x} dx.
\end{array}$$

9.

$$\begin{array}{ll}
9.1. \int \frac{dx}{(2x+1)\sqrt[3]{\ln^2(2x+1)}}. & 9.2. \int \frac{\sqrt[3]{\ln^2(1-x)}}{x-1} dx. \\
9.3. \int \frac{dx}{(1-x)\sqrt[3]{\ln^2(1-x)}}. & 9.4. \int \frac{dx}{(1-x)\sqrt{\ln^3(1-x)}}. \\
9.5. \int \frac{\ln^3(1-x)}{x-1} dx. & 9.6. \int \frac{\sqrt{\ln(2x-1)}}{2x-1} dx.
\end{array}$$

$$9.7. \int \frac{\sqrt[3]{\ln(3x+1)}}{3x+1} dx.$$

$$9.9. \int \frac{dx}{(x+1)\sqrt[3]{\ln(x+1)}}.$$

$$9.11. \int \frac{\sqrt{\ln^5(x+1)}}{x+1} dx.$$

$$9.13. \int \frac{\sqrt{\ln^3(x+1)}}{x+1} dx.$$

$$9.15. \int \frac{\sqrt{\ln^7(x+1)}}{x+1} dx.$$

$$9.17. \int \frac{\ln^4(3x+1)}{3x+1} dx.$$

$$9.19. \int \frac{dx}{(x+5)\ln^3(x+5)}.$$

$$9.21. \int \frac{\sqrt[3]{\ln(x+4)}}{x+4} dx.$$

$$9.23. \int \frac{\sqrt{\ln^3(x+3)}}{x+3} dx.$$

$$9.25. \int \frac{dx}{(x+3)\ln^4(x+3)}.$$

$$9.27. \int \frac{\sqrt{\ln^3(x+6)}}{x+6} dx.$$

$$9.8. \int \frac{dx}{(x+1)\ln^2(x+1)}.$$

$$9.10. \int \frac{\sqrt[5]{\ln^2(x+1)}}{x+1} dx.$$

$$9.12. \int \frac{\sqrt[7]{\ln^2(x+1)}}{x+1} dx.$$

$$9.14. \int \frac{dx}{(x+1)\sqrt[5]{\ln(x+1)}}.$$

$$9.16. \int \frac{dx}{(x+2)\sqrt{\ln(x+2)}}.$$

$$9.18. \int \frac{dx}{(x-3)\ln^4(x-3)}.$$

$$9.20. \int \frac{\ln^3(x-5)}{x-5} dx.$$

$$9.22. \int \frac{\ln^5(x-7)}{x-7} dx.$$

$$9.24. \int \frac{\sqrt[3]{\ln^4(x-5)}}{x-5} dx.$$

$$9.26. \int \frac{\ln^5(x-8)}{x-8} dx.$$

$$9.28. \int \frac{dx}{(x-4)\ln^5(x-4)}.$$

$$9.29. \int \frac{\ln^6(x+9)}{x+9} dx.$$

$$9.30. \int \frac{\ln(3x+5)}{(3x+5)} dx.$$

10.

$$10.1. \int \sin^4 2x \cos 2x dx.$$

$$10.2. \int \frac{\cos 2x}{\sin^3 2x} dx.$$

$$10.3. \int \frac{\sin 3x}{\cos^4 3x} dx.$$

$$10.4. \int \frac{\sin x}{\sqrt[3]{\cos x}} dx.$$

$$10.5. \int \frac{\sin x}{\cos^5 x} dx.$$

$$10.6. \int \cos^7 2x \sin 2x dx.$$

$$10.7. \int \frac{\cos x}{\sin x + 2} dx.$$

$$10.8. \int \frac{\cos x}{3 - \sin x} dx.$$

$$10.9. \int \frac{\sin x}{\sqrt{\cos x + 3}} dx.$$

$$10.10. \int \frac{\sin x}{\sqrt[3]{\cos x + 1}} dx.$$

$$10.11. \int \frac{\cos x}{\sqrt{(\sin x - 4)^3}} dx.$$

$$10.12. \int \frac{\sin 3x}{\cos^2 3x} dx.$$

$$10.13. \int \frac{\sin 5x}{\sqrt{\cos 5x}} dx.$$

$$10.14. \int \frac{\cos 4x}{\sin^3 4x} dx.$$

$$10.15. \int \sin^3 4x \cos 4x dx.$$

$$10.16. \int \sqrt[3]{\cos 2x} \sin 2x dx.$$

$$10.17. \int \sqrt{\cos^3 2x} \sin 2x dx.$$

$$10.18. \int \frac{\sin 4x}{\sqrt[3]{\cos^2 4x}} dx.$$

$$10.19. \int \sin^3 5x \cos 5x dx.$$

$$10.20. \int \frac{\cos 5x}{\sqrt{\sin^3 5x}} dx.$$

$$10.21. \int \frac{\sin 5x}{\cos^4 5x} dx.$$

$$10.22. \int \sqrt{\cos 7x} \sin 7x dx.$$

$$10.23. \int \sin^6 3x \cos 3x dx.$$

$$10.24. \int \frac{\cos 6x}{\sin^7 6x} dx.$$

$$10.25. \int \sqrt{\cos^3 2x} \sin 2x dx.$$

$$10.27. \int \sin^5 4x \cos 4x dx.$$

$$10.29. \int \frac{\sin 2x}{\sqrt[3]{\cos^4 2x}} dx.$$

$$10.26. \int \sin^4 8x \cos 8x dx.$$

$$10.28. \int \frac{\sin 4x}{\sqrt[3]{\cos 4x}} dx.$$

$$10.30. \int \frac{\cos 6x}{\sin^4 6x} dx.$$

11.

$$11.1. \int \frac{\sqrt{\operatorname{tg}^3 x}}{\cos^2 x} dx.$$

$$11.3. \int \frac{dx}{\sin^2 x \operatorname{ctg}^4 x}.$$

$$11.5. \int \frac{\operatorname{tg}^3 4x}{\cos^2 4x} dx.$$

$$11.7. \int \frac{\sqrt[3]{\operatorname{ctg}^2 x}}{\sin^2 x} dx.$$

$$11.9. \int \frac{dx}{\cos^2 3x \operatorname{tg}^4 3x}.$$

$$11.11. \int \frac{\sqrt[5]{\operatorname{ctg} 3x}}{\sin^2 3x} dx.$$

$$11.13. \int \frac{\operatorname{ctg}^5 6x}{\sin^2 6x} dx.$$

$$11.15. \int \frac{\operatorname{ctg}^4 3x}{\sin^2 3x} dx.$$

$$11.17. \int \frac{dx}{\sin^2 3x \operatorname{ctg}^3 3x}.$$

$$11.2. \int \frac{dx}{\cos^2 x \sqrt{\operatorname{tg}^3 x}}.$$

$$11.4. \int \frac{\operatorname{ctg}^5 2x}{\sin^2 2x} dx.$$

$$11.6. \int \frac{\sqrt[3]{\operatorname{tg} 5x}}{\cos^2 5x} dx.$$

$$11.8. \int \frac{dx}{\sin^2 x \operatorname{ctg}^3 x}.$$

$$11.10. \int \frac{\sqrt{\operatorname{ctg} 7x}}{\sin^2 7x} dx.$$

$$11.12. \int \frac{\operatorname{tg}^4 7x}{\cos^2 7x} dx.$$

$$11.14. \int \frac{\sqrt[3]{\operatorname{tg}^5 4x}}{\cos^2 4x} dx.$$

$$11.16. \int \frac{dx}{\cos^2 4x \sqrt{\operatorname{tg} 4x}}.$$

$$11.18. \int \frac{\operatorname{tg} 6x}{\cos^2 6x} dx.$$

$$11.19. \int \frac{dx}{\sin^2 x \operatorname{ctg}^3 x}.$$

$$11.21. \int \frac{\operatorname{ctg}^5 4x}{\sin^2 4x} dx.$$

$$11.23. \int \frac{\sqrt[5]{\operatorname{tg}^2 3x}}{\cos^2 3x} dx.$$

$$11.25. \int \frac{dx}{\sin^2 x \sqrt[5]{\operatorname{ctg}^4 x}}.$$

$$11.27. \int \frac{\operatorname{tg}^6 2x}{\cos^2 2x} dx.$$

$$11.29. \int \frac{\sqrt[5]{\operatorname{ctg}^2 x}}{\sin^2 x} dx.$$

$$11.20. \int \frac{\sqrt{\operatorname{ctg} 4x}}{\sin^2 4x} dx.$$

$$11.22. \int \frac{\sqrt[3]{\operatorname{ctg} 7x}}{\cos^2 7x} dx.$$

$$11.24. \int \frac{\sqrt{\operatorname{ctg}^3 5x}}{\sin^2 5x} dx.$$

$$11.26. \int \frac{dx}{\cos^2 x \sqrt[5]{\operatorname{tg}^2 x}}.$$

$$11.28. \int \frac{\sqrt{\operatorname{ctg}^5 x}}{\sin^2 x} dx.$$

$$11.30. \int \frac{\operatorname{tg}^7 3x}{\cos^2 3x} dx.$$

12.

$$12.1. \int \frac{\sqrt{\operatorname{arctg}^6 3x}}{1+9x^2} dx.$$

$$12.3. \int \frac{\arccos^2 3x}{\sqrt{1-9x^2}} dx.$$

$$12.5. \int \frac{\sqrt[3]{\arccos^2 x}}{\sqrt{1-x^2}} dx.$$

$$12.7. \int \frac{\arccos 3x}{\sqrt{1-9x^2}} dx.$$

$$12.9. \int \frac{\arcsin^5 2x}{\sqrt{1-4x^2}} dx.$$

$$12.2. \int \frac{\sqrt[3]{\arcsin x}}{\sqrt{1-x^2}} dx.$$

$$12.4. \int \frac{\operatorname{arctg}^3 2x}{1+4x^2} dx.$$

$$12.6. \int \frac{dx}{(1+x^2) \operatorname{arctg}^3 x}.$$

$$12.8. \int \frac{\sqrt[3]{\operatorname{arctg}^2 x}}{1+x^2} dx.$$

$$12.10. \int \frac{dx}{\sqrt{1-x^2} \arcsin^4 x}.$$