1.1. $\int (4-3x)e^{-3x}dx.$ BOXMATH.VN

1.2. $\int \text{arctg}\sqrt{4x-1}dx.$

1.3. $\int (3x+4)e^{3x}dx.$

1.4. $\int (4x-2)\cos 2xdx.$

1.5. $\int (4-16x)\sin 4xdx.$

1.6. $\int (5x-2)e^{3x}dx.$

1.7. $\int (1-6x)e^{2x}dx.$

1.8. $\int \ln\left(x^2+4\right)dx.$

1.9. $\int \ln\left(4x^2+1\right)dx.$

1.10. $\int (2-4x)\sin 2xdx.$

1.11. $\int \text{arctg}\sqrt{6x-1}dx.$ BOXMATH.VN

1.12. $\int e^{-2x}(4x-3)dx.$

1.13. $\int e^{-3x}(2-9x)dx.$

1.14. $\int \text{arctg}\sqrt{2x-1}dx.$

1.15. $\int \text{arctg}\sqrt{3x-1}dx.$

1.16. $\int \text{arctg}\sqrt{5x-1}dx.$

1.17. $\int (5x+6)\cos 2xdx.$

1.18. $\int (3x-2)\cos 5xdx.$

1.19. $\int \left(x\sqrt{2}-3\right)\cos 2xdx.$

1.20. $\int (4x+7)\cos 3xdx.$

1.21. $\int (2x-5)\cos 4xdx$

1.22. $\int (8-3x)\cos 5xdx.$

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1.23. $\int (x+5)\sin 3xdx.$

1.24. $\int (2-3x)\sin 2xdx.$

1.25. $\int (4x+3)\sin 5xdx.$

1.26. $\int (7x-10)\sin 4xdx.$

1.27. $\int \left(\sqrt{2}-8x\right)\sin 3xdx.$

1.28. $\int \frac{xdx}{\cos^2 x}.$

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1.29. $\int \frac{xdx}{\sin^2 x}.$

30. $\int x\sin^2 xdx.$

1.31. $\int \frac{x\cos xdx}{\sin^3 x}.$

2.1. $\int\limits_{-2}^{0}(x^2+5x+6)\cos 2x dx.$

2.2. $\int\limits_{-2}^{0}\left(x^2-4\right)\cos 3x dx.$

2.3. $\int\limits_{-1}^{0}\left(x^2+4x+3\right)\cos x dx.$

2.4. $\int\limits_{-2}^{0}\left(x+2\right)^2\cos 3x dx.$

2.5. $\int\limits_{-4}^{0}\left(x^2+7x+12\right)\cos x dx.$

2.6. $\int\limits_{0}^{\pi}\left(2x^2+4x+7\right)\cos 2x dx.$

2.7. $\int\limits_{0}^{\pi}\left(9x^2+9x+11\right)\cos 3x dx.$

2.8. $\int\limits_{0}^{\pi}\left(8x^2+16x+17\right)\cos 4x dx.$

2.9. $\int\limits_{0}^{2\pi}\left(3x^2+5\right)\cos 2x dx.$

2.10. $\int\limits_{0}^{2\pi}\left(2x^2-15\right)\cos 3x dx.$

2.11. $\int\limits_{0}^{2\pi}\left(3-7x^2\right)\cos 2x dx.$

2.12. $\int\limits_{0}^{2\pi}\left(1-8x^2\right)\cos 4x dx.$

2.13. $\int\limits_{-1}^{0}\left(x^2+2x+1\right)\sin 3x dx.$

2.14. $\int\limits_{0}^{3}\left(x^2-3x\right)\sin 2x dx.$

2.15. $\int\limits_{0}^{\pi}\left(x^2-3x+2\right)\sin x dx.$

2.16. $\int\limits_{0}^{\frac{\pi}{2}}\left(x^2-5x+6\right)\sin 3x dx.$

2.17. $\int\limits_{-3}^{0}\left(x^2+6x+9\right)\sin 2x dx.$

2.18. $\int\limits_{0}^{\frac{\pi}{4}}\left(x^2+17,5\right)\sin 2x dx.$

2.19. $\int\limits_{0}^{\frac{\pi}{2}}\left(1-5x^2\right)\sin x dx.$

2.20. $\int\limits_{\frac{\pi}{4}}^{3}\left(3x-x^2\right)\sin 2x dx.$

2.21. $\int_1^2 x\ln^2 x dx.$

2.22. $\int_1^{e^2} \frac{\ln^2 x dx}{\sqrt{x}}.$

2.23. $\int_1^8 \frac{\ln^2 x dx}{\sqrt[3]{x^2}}.$

2.24. $\int_0^1 (x+1)\ln^2(x+1)dx.$

2.25. $\int_2^3 (x-1)^3 \ln^2(x-1)dx.$

2.26. $\int_{-1}^0 (x+2)^3 \ln^2(x+2)dx.$

2.27. $\int_0^2 (x+1)^2 \ln^2(x+1)dx.$

2.28. $\int_1^e \sqrt{x}\ln^2 x dx.$

2.29. $\int_{-1}^1 x^2 e^{-\frac{x}{2}} dx.$

2.30. $\int_0^1 x^2 e^{3x} dx.$

2.31. $\int_{-2}^0 (x^2+2)e^{\frac{x}{2}} dx.$

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

3.2. $\int \frac{1+\ln x}{x} dx.$

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

3.4. $\int \frac{x^2+\ln x^2}{x} dx.$

3.5. $\int \frac{xdx}{\sqrt{x^4+x^2+1}}.$

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

3.7. $\int \operatorname{tg} x \ln\cos x dx.$

3.8. $\int \frac{\operatorname{tg}(x+1)}{\cos^2(x+1)} dx.$

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

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

3.11. $\int \frac{\sin x - \cos x}{(\cos x + \sin x)^5} dx.$

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

3.13. $\int \frac{x^3 + x}{x^4 + 1} dx.$

3.14. $\int \frac{xdx}{\sqrt{x^4 - x^2 - 1}}.$

3.15. $\int \frac{xdx}{\sqrt[3]{x-1}}.$

3.16. $\int \frac{1 + \ln(x-1)}{x-1} dx.$

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

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

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

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

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

3.22. $\int \frac{8x - \operatorname{arctg} 2x}{1 + 4x^2} dx.$

3.23. $\int \frac{1/(2\sqrt{x}) + 1}{(\sqrt{x} + x)^2} dx.$

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

3.25. $\int \frac{x + 1/x}{\sqrt{x^2 + 1}} dx.$

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

3.27. $\int \frac{\operatorname{arctg} x + x}{1 + x^2} dx.$

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

3.29. $\int \frac{x^3}{x^2 + 1} dx.$

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

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

4.1. $\int\limits_{e+1}^{e^2+1} \frac{1+\ln(x-1)}{x-1}dx.$

4.2. $\int\limits_{0}^{1} \frac{(x^2+1)dx}{(x^3+3x+1)^2}.$

4.3. $\int\limits_{0}^{1} \frac{4\operatorname{arctg} x - x}{1+x^2}dx.$

4.4. $\int\limits_{0}^{2} \frac{x^3 dx}{x^2+4}.$

4.5. $\int\limits_{\pi}^{2\pi} \frac{x+\cos x}{x^2+2\sin x}dx.$

4.6. $\int\limits_{0}^{\pi/4} \frac{2\cos x + 3\sin x}{(2\sin x - 3\cos x)^3}dx.$

4.7. $\int\limits_{0}^{1/2} \frac{8x - \operatorname{arctg} 2x}{1+4x^2}dx.$

4.8. $\int\limits_{1}^{4} \frac{1/(2\sqrt{x})+1}{(\sqrt{x}+x)^2}dx.$

4.9. $\int\limits_{0}^{1} \frac{xdx}{x^4+1}.$

4.10. $\int\limits_{\sqrt{3}}^{\sqrt{8}} \frac{x+1/x}{\sqrt{x^2+1}}dx.$

4.11. $\int\limits_{\sqrt{3}}^{\sqrt{8}} \frac{x-1/x}{\sqrt{x^2+1}}dx.$

4.12. $\int\limits_{0}^{\sqrt{3}} \frac{\operatorname{arctg} x + x}{1+x^2}dx.$

4.13. $\int\limits_{0}^{\sqrt{3}} \frac{x - (\operatorname{arctg} x)^4}{1+x^2}dx.$

4.14. $\int\limits_{0}^{1} \frac{x^3}{x^2+1}dx.$

4.15. $\int\limits_{0}^{\sin 1} \frac{(\arcsin x)^2 + 1}{\sqrt{1-x^2}}dx.$

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

4.17. $\int\limits_{\sqrt{3}}^{\sqrt{8}} \frac{dx}{x\sqrt{x^2+1}}.$

4.18. $\int\limits_{1}^{e} \frac{1+\ln x}{x}dx.$

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

4.20. $\int\limits_{1}^{e} \frac{x^2+\ln x^2}{x}dx.$

4.21. $\int_0^1 \frac{xdx}{\sqrt{x^4+x^2+1}}$.

4.22. $\int_0^1 \frac{x^3dx}{\left(x^2+1\right)^2}$.

4.23. $\int_0^{\pi/4} \operatorname{tg} x \ln\cos x dx$.

4.24. $\int_{-1}^{0} \frac{\operatorname{tg}(x+1)}{\cos^2(x+1)}dx$.

4.25. $\int_0^{1/\sqrt{2}} \frac{(\arccos x)^3-1}{\sqrt{1-x^2}}dx$.

4.26. $\int_{\pi}^{2\pi} \frac{1-\cos x}{(x-\sin x)^2}dx$.

4.27. $\int_0^{\pi/4} \frac{\sin x-\cos x}{(\cos x+\sin x)^5}dx$.

4.28. $\int_{\pi/4}^{\pi/2} \frac{x\cos x+\sin x}{(x\sin x)^2}dx$.

4.29. $\int_0^1 \frac{x^3+x}{x^4+1}dx$.

4.30. $\int_{\sqrt{2}}^{\sqrt{3}} \frac{xdx}{\sqrt{x^4-x^2-1}}$.

4.31. $\int_2^9 \frac{xdx}{\sqrt[3]{x-1}}$.

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

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

5.3. $\int \frac{x^3-17}{x^2-4x+3}dx$.

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

5.5. $\int \frac{2x^3-1}{x^2+x-6}dx$.

5.6. $\int \frac{3x^3+25}{x^2+3x+2}dx$.

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

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

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

5.10. $\int \frac{x^3-3x^2-12}{(x-4)(x-3)(x-2)}dx$.

5.11. $\int \frac{x^3-3x^2-12}{(x-4)(x-3)x}dx$.

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

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

5.14. $\int \frac{x^3-3x^2-12}{(x-4)(x-2)x}dx.$

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

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

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

5.18. $\int \frac{3x^5-12x^3-7}{x^2+2x}dx.$

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

5.20. $\int \frac{-x^5+25x^3+1}{x^2+5x}dx.$

5.21. $\int \frac{x^3-5x^2+5x+23}{(x-1)(x+1)(x-5)}dx.$

5.22. $\int \frac{x^5+2x^4-2x^3+5x^2-7x+9}{(x+3)(x-1)x}dx.$

5.23. $\int \frac{2x^4-5x^2-8x-8}{x(x-2)(x+2)}dx.$

$\frac{4x^4+2x^2-x-3}{x(x-1)(x+1)}dx.$

5.25. $\int \frac{3x^4+3x^3-5x^2+2}{x(x-1)(x+2)}dx.$

5.26. $\int \frac{2x^4+2x^3-41x^2+20}{x(x-4)(x+5)}dx.$

5.27. $\int \frac{x^5-x^4-6x^3+13x+6}{x(x-3)(x+2)}dx.$

5.28. $\int \frac{3x^3-x^2-12x-2}{x(x+1)(x-2)}dx.$

5.29. $\int \frac{2x^4+2x^3-3x^2+2x-9}{x(x-1)(x+3)}dx.$

5.30. $\int \frac{2x^3-x^2-7x-12}{x(x-3)(x+1)}dx.$

5.31. $\int \frac{2x^3-40x-8}{x(x+4)(x-2)}dx.$

6.1. $\int \frac{x^3+6x^2+13x+9}{(x+1)(x+2)^3}dx.$

6.2. $\int \frac{x^3+6x^2+13x+8}{x(x+2)^3}dx.$

6.3. $\int \frac{x^3-6x^2+13x-6}{(x+2)(x-2)^3}dx.$

6.4. $\int \frac{x^3+6x^2+14x+10}{(x+1)(x+2)^3}dx.$

6.5. $\int \frac{x^3-6x^2+11x-10}{(x+2)(x-2)^3}dx.$

6.6. $\int \frac{x^3+6x^2+11x+7}{(x+1)(x+2)^3}dx.$

6.7. $\int \frac{2x^3+6x^2+7x+1}{(x-1)(x+1)^3}dx.$

6.8. $\int \frac{x^3+6x^2+10x+10}{(x-1)(x+2)^3}dx.$

6.9. $\int \frac{2x^3+6x^2+7x+2}{x(x+1)^3}dx.$

6.10. $\int \frac{x^3-6x^2+13x-8}{x(x-2)^3}dx.$

6.11. $\int \frac{x^3-6x^2+13x-7}{(x+1)(x-2)^3}dx.$

6.12. $\int \frac{x^3-6x^2+14x-6}{(x+1)(x-2)^3}dx.$

6.13. $\int \frac{x^3-6x^2+10x-10}{(x+1)(x-2)^3}dx.$

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

6.15. $\int \frac{3x^3+9x^2+10x+2}{(x-1)(x+1)^3}dx.$

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

6.17. $\int \frac{2x^3+6x^2+7x+4}{(x+2)(x+1)^3}dx.$

6.18. $\int \frac{2x^3+6x^2+5x}{(x+2)(x+1)^3}dx.$

6.19. $\int \frac{2x^3+6x^2+7x}{(x-2)(x+1)^3}dx.$

6.20. $\int \frac{2x^3+6x^2+5x+4}{(x-2)(x+1)^3}dx.$

6.21. $\int \frac{x^3+6x^2+4x+24}{(x-2)(x+2)^3}dx.$

6.22. $\int \frac{x^3+6x^2+14x+4}{(x-2)(x+2)^3}dx.$

6.23. $\int \frac{x^3+6x^2+18x-4}{(x-2)(x+2)^3}dx.$

6.24. $\int \frac{x^3+6x^2+10x+12}{(x-2)(x+2)^3}dx.$

6.25. $\int \frac{x^3-6x^2+14x-4}{(x+2)(x-2)^3}dx.$

6.26. $\int \frac{x^3+6x^2+15x+2}{(x-2)(x+2)^3}dx.$

6.27. $\int \frac{2x^3-6x^2+7x-4}{(x-2)(x-1)^3}dx.$

6.28. $\int \frac{2x^3-6x^2+7x}{(x+2)(x-1)^3}dx.$

6.29. $\int \frac{x^3+6x^2-10x+52}{(x-2)(x+2)^3}dx.$

6.30. $\int \frac{x^3-6x^2+13x-6}{(x+2)(x-2)^3}dx.$

6.31. $\int \frac{x^3+6x^2+13x+6}{(x-2)(x+2)^3}dx.$

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

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

7.3. $\int \frac{2x^3+7x^2+7x-1}{(x+2)^2(x^2+x+1)}dx.$

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

7.5. $\int \frac{x^3+6x^2+9x+6}{(x+1)^2(x^2+2x+2)}dx.$

7.6. $\int \frac{2x^3+11x^2+16x+10}{(x+2)^2(x^2+2x+3)}dx.$

7.7. $\int \frac{3x^3+6x^2+5x-1}{(x+1)^2(x^2+2)}dx.$

7.8. $\int \frac{x^3+9x^2+21x+21}{(x+3)^2(x^2+3)}dx.$

7.9. $\int \frac{x^3+6x^2+8x+8}{(x+2)^2(x^2+4)}dx.$

7.10. $\int \frac{x^3+5x^2+12x+4}{(x+2)^2(x^2+4)}dx.$

7.11. $\int \frac{2x^3-4x^2-16x-12}{(x-1)^2(x^2+4x+5)}dx.$

7.12. $\int \frac{-3x^3+13x^2-13x+1}{(x-2)^2(x^2-x+1)}dx.$

7.13. $\int \frac{x^3+2x^2+10x}{(x+1)^2(x^2-x+1)}dx.$

7.14. $\int \frac{3x^3+x+46}{(x-1)^2(x^2+9)}dx.$

7.15. $\int \frac{4x^3+24x^2+20x-28}{(x+3)^2(x^2+2x+2)}dx.$

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

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

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

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

7.20. $\int \frac{2x^3+7x^2+7x+9}{(x^2+x+1)(x^2+x+2)}dx.$

7.21. $\int \frac{4x^2+3x+4}{\left(x^2+1\right)\left(x^2+x+1\right)}dx.$

7.22. $\int \frac{3x^3+4x^2+6x}{\left(x^2+2\right)\left(x^2+2x+2\right)}dx.$

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

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

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

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

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

7.29. $\int \frac{x+4}{\left(x^2+x+2\right)\left(x^2+2\right)}dx.$

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

7.30. $\int \frac{3x^3+7x^2+12x+6}{\left(x^2+x+3\right)\left(x^2+2x+3\right)}dx.$

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

8.1. $\int\limits_{\pi/2}^{2\operatorname{arctg}2} \frac{dx}{\sin^2 x\left(1-\cos x\right)}.$

8.2. $\int\limits_{0}^{\pi/2} \frac{\cos x dx}{2+\cos x}.$

8.3. $\int\limits_{\pi/2}^{2\operatorname{arctg}2} \frac{dx}{\sin^2 x\left(1+\cos x\right)}.$

8.4. $\int\limits_{2\operatorname{arctg}(1/2)}^{\pi/2} \frac{\cos x dx}{\left(1-\cos x\right)^3}.$

8.5. $\int\limits_{0}^{\pi/2} \frac{\cos x-\sin x}{\left(1+\sin x\right)^2}dx.$

8.6. $\int\limits_{2\operatorname{arctg}2}^{2\operatorname{arctg}3} \frac{dx}{\cos x\left(1-\cos x\right)}.$

8.7. $\int\limits_{2\operatorname{arctg}(1/3)}^{2\operatorname{arctg}(1/2)} \frac{dx}{\sin x\left(1-\sin x\right)}.$

8.8. $\int\limits_{2\operatorname{arctg}(1/2)}^{\pi/2} \frac{dx}{\left(1+\sin x-\cos x\right)^2}.$

8.9. $\int_0^{\pi/2} \frac{\cos x dx}{5+4\cos x}$.

8.10. $\int_0^{2\pi/3} \frac{1+\sin x}{1+\cos x+\sin x} dx$.

8.11. $\int_{\pi/3}^{\pi/2} \frac{\cos x dx}{1+\sin x-\cos x}$.

8.12. $\int_0^{\pi/2} \frac{(1+\cos x)dx}{1+\sin x+\cos x}$.

8.13. $\int_0^{\pi/2} \frac{\sin dx}{1+\sin x+\cos x}$.

8.14. $\int_0^{2\operatorname{arctg}(1/2)} \frac{1+\sin x}{(1-\sin x)^2} dx$.

8.15. $\int_0^{\pi/2} \frac{\cos x dx}{1+\sin x+\cos x}$.

8.16. $\int_0^{2\operatorname{arctg}(1/3)} \frac{\cos x dx}{(1-\sin x)(1+\cos x)}$.

8.17. $\int_{-2\pi/3}^{0} \frac{\cos x dx}{1+\cos x-\sin x}$.

8.18. $\int_{-\pi/2}^{0} \frac{\cos x dx}{(1+\cos x-\sin x)^2}$.

8.19. $\int_0^{\pi/2} \frac{\cos x dx}{(1+\cos x+\sin x)^2}$.

8.20. $\int_0^{2\operatorname{arctg}(1/2)} \frac{(1-\sin x)dx}{\cos x(1+\cos x)}$.

8.21. $\int_0^{\pi/2} \frac{\sin x dx}{(1+\sin x)^2}$.

8.22. $\int_0^{\pi/2} \frac{\sin x dx}{(1+\cos x+\sin x)^2}$.

8.23. $\int_{-\pi/2}^{0} \frac{\sin x dx}{(1+\cos x-\sin x)^2}$.

8.24. $\int_{-2\pi/3}^{0} \frac{\cos^2 x dx}{(1+\cos x-\sin x)^2}$.

8.25. $\int_0^{\pi/2} \frac{\sin^2 x dx}{(1+\cos x+\sin x)^2}$.

8.26. $\int_0^{2\pi/3} \frac{\cos^2 x dx}{(1+\cos x+\sin x)^2}$.

8.27. $\int_{\pi/2}^{2\operatorname{arctg}2} \frac{dx}{\sin x(1+\sin x)}$.

8.28. $\int_0^{\pi/2} \frac{dx}{(1+\cos x+\sin x)^2}$.

8.29. $\int_0^{\pi/2} \frac{\sin x dx}{2+\sin x}$.

8.30. $\int_0^{\pi/4} \frac{dx}{\cos x(1+\cos x)}$.

8.31. $\int_0^{\pi/2} \frac{\sin x dx}{5+3\sin x}$.

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9.1. $\int_{\pi/4}^{\operatorname{arctg} 3} \frac{dx}{(3\operatorname{tg} x+5)\sin 2x}$.

9.2. $\int_{\arccos\left(4/\sqrt{17}\right)}^{\pi/4} \frac{2\operatorname{ctg} x+1}{(2\sin x+\cos x)^2} dx$.

9.3. $\int_0^{\arccos\left(1/\sqrt{17}\right)} \frac{3+2\operatorname{tg} x}{2\sin^2 x+3\cos^2 x-1} dx$.

9.4. $\int_{\pi/4}^{\operatorname{arctg} 3} \frac{4\operatorname{tg} x-5}{1-\sin 2x+4\cos^2 x} dx$.

9.5. $\int_0^{\operatorname{arctg}(1/3)} \frac{(8+\operatorname{tg} x)}{18\sin^2 x+2\cos^2 x} dx$.

9.6. $\int_0^{\arccos\sqrt{2/3}} \frac{\operatorname{tg} x+2}{\sin^2 x+2\cos^2 x-3} dx$.

9.7. $\int_{\arcsin\left(1/\sqrt{37}\right)}^{\pi/4} \frac{6\operatorname{tg} x dx}{3\sin 2x+5\cos^2 x}$.

9.8. $\int_0^{\pi/4} \frac{2\operatorname{tg}^2 x-11\operatorname{tg} x-22}{4-\operatorname{tg} x} dx$.

9.9. $\int_{-\operatorname{arctg}(1/3)}^{0} \frac{3\operatorname{tg} x+1}{2\sin 2x-5\cos 2x+1} dx$.

9.10. $\int_{\pi/4}^{\operatorname{arctg} 3} \frac{1+\operatorname{ctg} x}{(\sin x+2\cos x)^2} dx$.

9.11. $\int_{\pi/4}^{\arccos\left(1/\sqrt{3}\right)} \frac{\operatorname{tg} x}{\sin^2 x-5\cos^2 x+4} dx$.

9.12. $\int_0^{\pi/4} \frac{6\sin^2 x}{3\cos 2x-4} dx$.

9.13. $\int_0^{\operatorname{arctg} 3} \frac{4+\operatorname{tg} x}{2\sin^2 x+18\cos^2 x} dx$.

9.14. $\int_0^{\operatorname{arctg} 2} \frac{12+\operatorname{tg} x}{3\sin^2 x+12\cos^2 x} dx$.

9.15. $\int_0^{\operatorname{arctg}(2/3)} \frac{6+\operatorname{tg} x}{9\sin^2 x+4\cos^2 x} dx$.

9.16. $\int_0^{\arcsin\sqrt{3/7}} \frac{\operatorname{tg}^2 x dx}{3\sin^2 x+4\cos^2 x-7}$.

9.17. $\int\limits_0^{\pi/4} \frac{7+3\operatorname{tg} x}{(\sin x+2\cos x)^2}dx.$

9.18. $\int\limits_{\arcsin(2/\sqrt{5})}^{\arcsin(3/\sqrt{10})} \frac{2\operatorname{tg} x+5}{(5-\operatorname{tg} x)\sin 2x}dx.$

9.19. $\int\limits_{-\arccos(1/\sqrt{10})}^{0} \frac{3\operatorname{tg}^2 x-50}{2\operatorname{tg} x+7}dx.$

9.20. $\int\limits_0^{\pi/4} \frac{5\operatorname{tg} x+2}{2\sin 2x+5}dx.$

9.21. $\int\limits_{\pi/4}^{\arcsin(2/\sqrt{5})} \frac{4\operatorname{tg} x-5}{4\cos^2 x-\sin 2x+1}dx.$

9.22. $\int\limits_0^{\arcsin\sqrt{7/8}} \frac{6\sin^2 x}{4+3\cos 2x}dx.$

9.23. $\int\limits_{-\arccos(1/\sqrt{5})}^{0} \frac{11-3\operatorname{tg} x}{\operatorname{tg} x+3}dx.$

9.24. $\int\limits_0^{\arcsin 3\sqrt{10}} \frac{2\operatorname{tg} x-5}{(4\cos x-\sin x)^2}dx.$

9.25. $\int\limits_{\pi/4}^{\arccos(1/\sqrt{26})} \frac{dx}{(6-\operatorname{tg} x)\sin 2x}.$

9.26. $\int\limits_0^{\pi/4} \frac{4-7\operatorname{tg} x}{2+3\operatorname{tg} x}dx.$

9.27. $\int\limits_{-\arcsin(2/\sqrt{5})}^{\pi/4} \frac{2-\operatorname{tg} x}{(\sin x+3\cos x)^2}dx.$

9.28. $\int\limits_{\pi/4}^{\arcsin\sqrt{2/3}} \frac{8\operatorname{tg} x dx}{3\cos^2 x+8\sin 2x-7}.$

9.29. $\int\limits_{\arccos(1/\sqrt{10})}^{\arccos(1/\sqrt{26})} \frac{12dx}{(6+5\operatorname{tg} x)\sin 2x}.$

9.30. $\int\limits_0^{\pi/3} \frac{\operatorname{tg}^2 x}{4+3\cos 2x}dx.$

9.31. $\int\limits_0^{\arccos(1/\sqrt{6})} \frac{3\operatorname{tg}^2 x-1}{\operatorname{tg}^2 x+5}.$

10.1. $\int\limits_{\pi/2}^{\pi} 2^8 \sin^8 x\, dx.$

10.2. $\int\limits_0^{\pi} 2^4 \sin^6 x\cos^2 x\, dx.$

10.3. $\int\limits_0^{2\pi} \sin^4 x\cos^4 x\, dx.$

10.4. $\int\limits_0^{2\pi} \sin^2(x/4)\cos^6(x/4)\, dx.$

10.5. $\int_0^{\pi} 2^4 \cos^8(x/2)\, dx.$

10.6. $\int_{-\pi/2}^{0} 2^8 \sin^8 x\, dx.$

10.7. $\int_{\pi/2}^{\pi} 2^4 \sin^6 x \cos^2 x\, dx.$

10.8. $\int_0^{\pi} 2^4 \sin^4 x \cos^4 x\, dx.$

10.9. $\int_0^{2\pi} \sin^2 x \cos^6 x\, dx.$

10.10. $\int_0^{2\pi} \cos^8(x/4)\, dx.$

10.11. $\int_0^{\pi} 2^4 \sin^8(x/2)\, dx.$

10.12. $\int_{-\pi}^{0} 2^8 \sin^6 x \cos^2 x\, dx.$

10.13. $\int_{\pi/2}^{2\pi} 2^8 \sin^4 x \cos^4 x\, dx.$

10.14. $\int_0^{\pi} 2^4 \sin^2 x \cos^6 x\, dx.$

10.15. $\int_0^{2\pi} \cos^8 x\, dx.$

10.16. $\int_0^{2\pi} \sin^8(x/4)\, dx.$

10.17. $\int_0^{\pi} 2^4 \sin^6(x/2)\cos^2(x/2)\, dx.$

10.18. $\int_{-\pi/2}^{0} 2^8 \sin^4 x \cos^4 x\, dx.$

10.19. $\int_{\pi/2}^{\pi} 2^8 \sin^2 x \cos^6 x\, dx.$

10.20. $\int_0^{\pi} 2^4 \cos^8 x\, dx.$

10.21. $\int_0^{2\pi} \sin^8 x\, dx.$

10.22. $\int_0^{2\pi} \sin^6(x/4)\cos^2(x/4)\, dx.$

10.23. $\int_0^{\pi} 2^4 \sin^4(x/2)\cos^4(x/2)\, dx.$

10.24. $\int_{-\pi/2}^{0} 2^8 \sin^2 x \cos^6 x\, dx.$

10.25. $\int_{\pi/2}^{2\pi} 2^8 \cos^8 x\, dx.$

10.26. $\int_0^{\pi} 2^4 \sin^8 x\, dx.$

10.27. $\int_0^{2\pi} \sin^6 x \cos^2 x \, dx.$

10.28. $\int_0^{2\pi} \sin^4 (x/4) \cos^4 (x/4) \, dx.$

10.29. $\int_0^{\pi} 2^4 \sin^2 (x/2) \cos^6 (x/2) \, dx.$

10.30. $\int_{-\pi/2}^{0} 2^8 \cos^8 x \, dx.$

10.31. $\int_0^{2\pi} \sin^4 3x \cos^4 3x \, dx.$

11.1. $\int_0^1 \frac{4\sqrt{1-x} - \sqrt{3x+1}}{\left(\sqrt{3x+1} + 4\sqrt{1-x}\right)(3x+1)^2} dx.$

11.2. $\int_1^{64} \frac{1 - \sqrt[6]{x} + 2\sqrt[3]{x}}{x + 2\sqrt{x^3} + \sqrt[3]{x^4}} dx.$

11.3. $\int_{-14/15}^{-7/8} \frac{6\sqrt{x+2}}{(x+2)^2 \sqrt{x+1}} dx.$

11.4. $\int_6^9 \sqrt{\frac{9-2x}{2x-21}} dx.$

11.5. $\int_0^5 e^{\sqrt{\frac{5-x}{5+x}}} \frac{dx}{(5+x)\sqrt{25-x^2}}.$

11.6. $\int_8^{12} \sqrt{\frac{6-x}{x-14}} dx.$

11.7. $\int_0^1 e^{\sqrt{\frac{1-x}{1+x}}} \frac{dx}{(1+x)\sqrt{1-x^2}}.$

1.8. $\int_{5/2}^{10/3} \frac{\sqrt{x+2} + \sqrt{x-2}}{\left(\sqrt{x+2} - \sqrt{x-2}\right)(x-2)^2} dx.$

11.9. $\int_1^8 \frac{5\sqrt{x+24}}{(x+24)^2 \sqrt{x}} dx.$

11.10. $\int_1^2 \frac{x + \sqrt{3x-2} - 10}{\sqrt{3x-2} + 7} dx.$

11.11. $\int_6^{10} \sqrt{\frac{4-x}{x-12}} dx.$

11.12. $\int_0^2 \frac{\left(4\sqrt{2-x} - \sqrt{2x+2}\right) dx}{\left(\sqrt{2x+2} + 4\sqrt{2-x}\right)(2x+2)^2}.$

11.13. $\int_{-1/2}^0 \frac{x dx}{2 + \sqrt{2x+1}}.$

11.14. $\int_0^4 e^{\sqrt{\frac{4-x}{4+x}}} \frac{dx}{(4+x)\sqrt{16-x^2}}.$

11.15. $\int\limits_{1/8}^{1} \frac{15\sqrt{x+3}}{(x+3)^2\sqrt{x}}dx.$

11.16. $\int\limits_{-5/3}^{1} \frac{\sqrt[3]{3x+5}+2}{1+\sqrt[3]{3x+5}}dx.$

11.17. $\int\limits_{2}^{3} \sqrt{\frac{3-2x}{2x-7}}dx.$

11.18. $\int\limits_{0}^{7} \frac{\sqrt{x+25}}{(x+25)^2\sqrt{x+1}}dx.$

11.19. $\int\limits_{0}^{2} \frac{\left(4\sqrt{2-x}-\sqrt{3x+2}\right)dx}{\left(\sqrt{3x+2}+4\sqrt{2-x}\right)(3x+2)^2}.$

11.20. $\int\limits_{0}^{2} e^{\sqrt{\frac{2-x}{2+x}}} \frac{dx}{(2+x)\sqrt{4-x^2}}.$

11.21. $\int\limits_{3}^{5} \sqrt{\frac{2-x}{x-6}}dx.$

11.22. $\int\limits_{1/24}^{1/3} \frac{5\sqrt{x+1}}{(x+1)^2\sqrt{x}}dx.$

11.23. $\int\limits_{9}^{15} \sqrt{\frac{6-x}{x-18}}dx.$

$\int\limits_{0}^{1} \frac{\left(4\sqrt{1-x}-\sqrt{2x+1}\right)dx}{\left(\sqrt{2x+1}+4\sqrt{1-x}\right)(2x+1)^2}.$

11.25. $\int\limits_{1}^{64} \frac{\left(2+\sqrt[3]{x}\right)dx}{\left(\sqrt[6]{x}+2\sqrt{x^3}+\sqrt{x}\right)\sqrt{x}}.$

11.26. $\int\limits_{16/15}^{4/3} \frac{4\sqrt{x}}{x^2\sqrt{x-1}}dx.$

11.27. $\int\limits_{0}^{6} \frac{e^{\sqrt{(6-x)/(6+x)}}\,dx}{(6+x)\sqrt{36-x^2}}.$

11.28. $\int\limits_{1}^{64} \frac{6-\sqrt{x}+\sqrt[4]{x}}{\sqrt{x^3}-7x-6\sqrt[4]{x^3}}dx.$

11.29. $\int\limits_{0}^{1} \frac{\left(4\sqrt{1-x}-\sqrt{x+1}\right)dx}{\left(\sqrt{x+1}+4\sqrt{1-x}\right)(x+1)^2}.$

11.30. $\int\limits_{0}^{3} \frac{e^{\sqrt{(3-x)/(3+x)}}\,dx}{(3+x)\sqrt{9-x^2}}.$

11.31. $\int\limits_{0}^{2} \frac{\left(4\sqrt{2-x}-\sqrt{x+2}\right)dx}{\left(\sqrt{x+2}+4\sqrt{2-x}\right)(x+2)^2}.$

12.1. $\int\limits_{0}^{16} \sqrt{256-x^2}\,dx.$

12.2. $\int\limits_{0}^{1} x^2\sqrt{1-x^2}\,dx.$

12.3. $\int_0^5 \frac{dx}{\left(25+x^2\right)\sqrt{25+x^2}}$.

12.4. $\int_0^3 \frac{dx}{\left(9+x^2\right)^{3/2}}$.

12.5. $\int_0^{\sqrt{5}/2} \frac{dx}{\sqrt{\left(5-x^2\right)^3}}$.

12.6. $\int_1^2 \frac{\sqrt{x^2-1}}{x^4}dx$.

12.7. $\int_0^{\sqrt{2}/2} \frac{x^4 dx}{\sqrt{\left(1-x^2\right)^3}}$.

12.8. $\int_0^{\sqrt{3}} \frac{dx}{\sqrt{\left(4-x^2\right)^3}}$.

12.9. $\int_0^1 \frac{x^4 dx}{\left(2-x^2\right)^{3/2}}$.

12.10. $\int_0^2 \frac{x^2 dx}{\sqrt{16-x^2}}$.

12.11. $\int_0^2 \sqrt{4-x^2}dx$.

$\int_0 \frac{dx}{\left(16+x^2\right)^{3/2}}$.

12.13. $\int_0^4 x^2\sqrt{16-x^2}dx$.

12.14. $\int_0^{5/2} \frac{x^2 dx}{\sqrt{25-x^2}}$.

12.15. $\int_0^5 x^2\sqrt{25-x^2}dx$.

12.16. $\int_0^4 \sqrt{16-x^2}dx$.

12.17. $\int_0^{4\sqrt{3}} \frac{dx}{\sqrt{\left(64-x^2\right)^3}}$.

12.18. $\int_{\sqrt{2}}^{2\sqrt{2}} \frac{\sqrt{x^2-2}}{x^4}dx$.

12.19. $\int_0^{2\sqrt{2}} \frac{x^4 dx}{\left(16-x^2\right)\sqrt{16-x^2}}$.

12.20. $\int_{-3}^3 x^2\sqrt{9-x^2}dx$.

12.21. $\int_1^{\sqrt{3}} \frac{dx}{\sqrt{\left(1+x^2\right)^3}}$.

12.22. $\int_0^2 \frac{dx}{\sqrt{\left(16-x^2\right)^3}}$.

12.23. $\int_0^2 \frac{x^4 dx}{\sqrt{\left(8-x^2\right)^3}}$.

12.24. $\int_3^6 \frac{\sqrt{x^2-9}}{x^4} dx$.

12.25. $\int_0^1 \sqrt{4-x^2} dx$.

12.26. $\int_2^4 \frac{\sqrt{x^2-4}}{x^4} dx$.

12.27. $\int_0^2 \frac{dx}{\left(4+x^2\right)\sqrt{4+x^2}}$.

12.28. $\int_0^{\sqrt{2}} \frac{x^4 dx}{\left(4-x^2\right)^{3/2}}$.

12.29. $\int_0^{1/\sqrt{2}} \frac{dx}{\left(1-x^2\right)\sqrt{1-x^2}}$.

12.30. $\int_0^1 \frac{x^2 dx}{\sqrt{4-x^2}}$.

12.31. $\int_0^{3/2} \frac{x^2 dx}{\sqrt{9-x^2}}$.

13.1. $\int \frac{\sqrt{1+\sqrt{x}}}{x\sqrt[4]{x^3}} dx$.

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

13.3. $\int \frac{\sqrt{1+\sqrt[3]{x}}}{x\sqrt{x}} dx$.

13.4. $\int \frac{\sqrt[3]{1+\sqrt[3]{x}}}{x\sqrt[9]{x^4}} dx$.

13.5. $\int \frac{\sqrt[3]{1+\sqrt[3]{x^2}}}{x\sqrt[9]{x^8}} dx$.

13.6. $\int \frac{\sqrt[3]{\left(1+\sqrt[3]{x}\right)^2}}{x\sqrt[9]{x^5}} dx$.

13.7. $\int \frac{\sqrt[3]{\left(1+\sqrt[3]{x^2}\right)^2}}{x^2\sqrt[9]{x}} dx$.

13.8. $\int \frac{\sqrt[3]{\left(1+\sqrt{x}\right)^2}}{x\sqrt[6]{x^5}} dx$.

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

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

13.11. $\int \frac{\sqrt[4]{\left(1+\sqrt{x}\right)^3}}{x\sqrt[8]{x^7}}dx.$

13.12. $\int \frac{\sqrt[4]{\left(1+\sqrt[3]{x}\right)^3}}{x\sqrt[12]{x^7}}dx.$

13.13. $\int \frac{\sqrt[4]{\left(1+\sqrt[3]{x^2}\right)^3}}{x^2\sqrt[6]{x}}dx.$

13.14. $\int \frac{\sqrt{1+\sqrt[4]{x^3}}}{x^2\sqrt[8]{x}}dx.$

13.15. $\int \frac{\sqrt[3]{1+\sqrt[4]{x^3}}}{x^2}dx.$

13.16. $\int \frac{\sqrt[3]{\left(1+\sqrt[4]{x^3}\right)^2}}{x^2\sqrt[4]{x}}dx.$

13.17. $\int \frac{\sqrt[5]{\left(1+\sqrt{x}\right)^4}}{x\sqrt[10]{x^9}}dx.$

$\int \frac{\sqrt{\left(1+\sqrt[3]{x}\right)^4}}{x\sqrt[5]{x^3}}dx.$

13.19. $\int \frac{\sqrt[5]{\left(1+\sqrt[3]{x^2}\right)^4}}{x^2\sqrt[5]{x}}dx.$

13.20. $\int \frac{\sqrt[5]{\left(1+\sqrt[4]{x^3}\right)^4}}{x^2\sqrt[20]{x^7}}dx.$

13.21. $\int \frac{\sqrt[5]{1+\sqrt[5]{x^4}}}{x^2\sqrt[25]{x^{11}}}dx.$

13.22. $\int \frac{\sqrt{1+\sqrt[5]{x^4}}}{x^2\sqrt[5]{x}}dx.$

13.23. $\int \frac{\sqrt[3]{1+\sqrt[5]{x^4}}}{x^2\sqrt[15]{x}}dx.$

13.24. $\int \frac{\sqrt[3]{\left(1+\sqrt[5]{x^4}\right)^2}}{x^2\sqrt[3]{x}}dx.$

13.25. $\int \frac{\sqrt[4]{\left(1+\sqrt[5]{x^4}\right)^3}}{x^2\sqrt[5]{x^2}}dx.$

13.26. $\int \frac{\sqrt[3]{1+\sqrt[4]{x}}}{x\sqrt[3]{x}}dx.$

13.27. $\int \frac{\sqrt[3]{\left(1+\sqrt[4]{x}\right)^2}}{x\sqrt[12]{x^5}}dx.$

13.28. $\int \frac{\sqrt[4]{1+\sqrt[3]{x}}}{x\sqrt[12]{x^5}}dx.$

13.29. $\int \frac{\sqrt[4]{1+\sqrt[3]{x^2}}}{x\sqrt[6]{x^5}}dx.$

13.30. $\int \frac{\sqrt[3]{1+\sqrt[5]{x}}}{x\sqrt[15]{x^4}}dx.$

13.31. $\int \frac{\sqrt[5]{1+\sqrt[3]{x}}}{x\sqrt[5]{x^2}}dx.$