

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

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

$$3. \int (3 \cos 4x + 6 \sin 5a) dx$$

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

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

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

$$7. \int \frac{dx}{\sqrt{x+1} - \sqrt{x}}$$

$$8. \int \frac{\sin x \cos x}{3 \sin^4 x + 8} dx$$

$$9. \int \frac{x^{n/2} dx}{\sqrt{2-x^{n+2}}}$$

$$10. \int \frac{dx}{\sqrt{3x} \sqrt{3-x}}$$

$$11. \int \frac{dx}{\sqrt{(1-x^2) \arcsin^5 x}}$$

$$12. \int \frac{dx}{1 - \cos 7x}$$

$$13. \int \sin 2x e^{2 \sin^2 x} dx$$

$$14. \int x \cos 4x^2 dx$$

$$15. \int \frac{dx}{e^x(7 - e^{-x})}$$

$$16. \int \frac{2 dx}{\sqrt{2-5x}}$$

$$17. \int \frac{6-7 \ln x}{5x} dx$$

$$18. \int \frac{5x+3}{\sqrt{x^2-x+1}} dx$$

$$19. \int \frac{e^x}{8+3e^{2x}} dx$$

$$20. \int \frac{\cos^2 5x}{\sin^4 5x} dx$$

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

$$22. \int \frac{2x^3 - 5x}{(5-x^2)^3} dx$$

$$23. \int \frac{3x^3 + 7x}{8+x^4} dx$$

$$24. \int x \sqrt{3-5x} dx$$

$$25. \int \frac{\sin 2x dx}{\sqrt[5]{\sin^6 x}}$$

$$26. \int \frac{3x^2 + \ln^2 x^2}{x} dx$$

$$27. \int \sqrt{\frac{e^{7 \arcsin x}}{1-x^2}} dx$$

$$28. \int \frac{x dx}{(7x-2)^6}$$

$$29. \int \frac{x^2 dx}{\sqrt{6-7x^6}}$$

$$30. \int \frac{\cos x dx}{a^2 + b^2 \sin^2 x} dx$$

Вариант 12

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

$$2. \int \frac{dx}{\sin^2 x \cdot \sqrt[7]{4 \operatorname{ctg} x}}$$

$$3. \int \sqrt{1+\sin 7x} dx$$

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

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

$$6. \int \frac{dx}{x \sqrt{3 \ln x - 1}}$$

$$7. \int \frac{6x+7}{\sqrt{2+5x}} dx$$

$$8. \int (3x-1) \sqrt{3-x} dx$$

$$9. \int \frac{x^3 dx}{\sqrt{3-2x^4}}$$

$$10. \int \frac{\sqrt[5]{\operatorname{arctg}^3 x}}{1+x^2} dx$$

$$11. \int \frac{\operatorname{ctg}^4 x}{\cos^2 x} dx$$

$$12. \int \frac{dx}{e^x + 5e^{-x}}$$

$$13. \int x^2 \sqrt{3+5x^3} dx$$

$$14. \int \frac{7x^3 + 2x}{(1+x^2)^2} dx$$

$$15. \int \frac{2x+1}{(x-1)^2} dx$$

$$16. \int \frac{dx}{2x^2 + 15}$$

$$17. \int \frac{5 \ln x - 4}{x \sqrt{\ln x}} dx$$

$$18. \int \frac{\sqrt{(1-x^2)^3} - 5 \arccos x}{\sqrt{1-x^2}} dx$$

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

$$20. \int \frac{2^x (3 \cdot 25^x - 1)}{5^x} dx$$

$$21. \int \frac{(6 + \sqrt[3]{x^2})^{1/3}}{\sqrt[3]{x}} dx$$

$$22. \int \cos x \sin^5 x dx$$

$$23. \int \frac{\sin x dx}{5 + 3 \cos^2 x}$$

$$24. \int \frac{\ln x + 1}{x \cdot \ln^2 x} dx$$

$$25. \int \frac{dx}{(1+x^2) \operatorname{arctg}^{-3} x}$$

$$26. \int \frac{dx}{\sqrt{x} (5 - 2\sqrt{x})}$$

$$27. \int \frac{1}{x^2} \sin \frac{5}{x} dx$$

$$28. \int \frac{x dx}{\sqrt{4-x^2}}$$

$$29. \int \frac{\cos 8x dx}{\sin^2 8x + \cos^2 8x}$$

$$30. \int \sin 2x \cdot e^{3 \cos^2 x} dx$$

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

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

$$3. \int x \cdot \sqrt[5]{2-15x} dx$$

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

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

$$6. \int \operatorname{ctg}^3 x dx$$

$$7. \int \frac{3 \arcsin x - 2 \arccos x}{\sqrt{1-x^2}} dx$$

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

$$9. \int \frac{5 + e^{6/x}}{x^2} dx$$

$$10. \int \frac{11-2x}{\sqrt{3-4x^2}} dx$$

$$11. \int x^2 (5-x^3)^2 dx$$

$$12. \int \frac{x^2 dx}{2-3x}$$

$$13. \int \frac{1+\sin 3x}{3x-\cos 3x} dx$$

$$14. \int \frac{dx}{2e^x + e^{-x}}$$

$$15. \int \frac{\sin x \cos x}{5 \cos^4 x + 1} dx$$

$$16. \int \sin 3x \cos 7a dx$$

$$17. \int \frac{\sqrt{\ln x - 2}}{x} dx$$

$$18. \int \frac{x^3 dx}{\sqrt{8-7x^8}}$$

$$19. \int \frac{x(1 + \operatorname{arctg} 2x^2)}{1+4x^4} dx$$

$$20. \int \frac{\sin^7 2x}{\cos^9 2x} dx$$

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

$$22. \int \frac{dx}{\sin^2(3x+2a)}$$

$$23. \int x^3 \sqrt[3]{4-3x^4} dx$$

$$24. \int \frac{5x^3 - 3x}{3+x^4} dx$$

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

$$26. \int \frac{(x+1)^2}{\sqrt{x}} dx$$

$$27. \int \frac{\ln^{-2} x}{x} dx$$

$$28. \int \frac{\sqrt{x} dx}{\left(4 - \sqrt{3x^3}\right)^2}$$

$$29. \int \frac{\operatorname{arctg} x + 1}{x^2 + 1} dx$$

$$30. \int \frac{\sqrt[4]{\operatorname{tg} x}}{\cos^2 x} dx$$

Вариант 14

$$1. \int \frac{dx}{\sqrt{3x} \cdot \sqrt{3-2x}}$$

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

$$3. \int \frac{dx}{\cos^2 x \sqrt{1 + \operatorname{tg} x}}$$

$$4. \int \frac{dx}{x \sqrt{4 - 7 \ln x}}$$

$$5. \int x \sin(x^2 - 2) dx$$

$$6. \int \frac{dx}{5 + 3x}$$

$$7. \int \sqrt{1 + \cos 5x} dx$$

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

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

$$10. \int 3x \cdot (4 + 3x^4)^{-1} dx$$

$$11. \int x \cdot (7 - 2x)^6 dx$$

$$12. \int \frac{dx}{\sqrt{2e^{-2x} - 3}}$$

$$13. \int \frac{2 \ln x + 1}{x \sqrt{1 - 4 \ln x}}$$

$$14. \int \frac{2x + 7}{x^2 + x + 5} dx$$

$$15. \int \sin 2x \cdot e^{-2 \cos^2 x} dx$$

$$16. \int \frac{2x - 3}{x^2 + 4x + 5} dx$$

$$17. \int \frac{3x - 5 \arcsin^2 x}{\sqrt{1 - x^2}} dx$$

$$18. \int \frac{dx}{\sqrt{x} (6 + 5x)}$$

$$19. \int \frac{5 + 2x}{\sqrt{5 + 3x^2}} dx$$

$$20. \int e^{2x} \sqrt{4 - 3e^x} dx$$

$$21. \int \sin 3x \sin 8x dx$$

$$22. \int (3 \sin 5x - 4 \cos 5y) dx$$

$$23. \int x^5 (12 - 7x^2)^{2/7} dx$$

$$24. \int \frac{\operatorname{ctg}^3 x}{\cos^2 x} dx$$

$$25. \int \frac{5x + 7}{\sqrt{6 - 2x - x^2}} dx$$

$$26. \int \frac{5 \cdot \ln x + 9}{x \cdot \ln^5 x} dx$$

$$27. \int \frac{x^5 dx}{\sqrt{1 - x^2}}$$

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

$$29. \int \frac{\cos x dx}{12 + 7 \sin^2 x}$$

$$30. \int \frac{dx}{1 + \cos 9x}$$

Вариант 15

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

$$2. \int \frac{9 - 2x}{\sqrt{1 - 7x^2}} dx$$

$$3. \int \frac{5 + 7 \operatorname{tg} x}{\cos^2 x} dx$$

$$4. \int \sin^4 7x dx$$

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

$$6. \int \frac{e^{-3x} + e^{3x}}{e^{-3x} - e^{3x}} dx$$

$$7. \int \frac{5x dx}{5 + x^4}$$

$$8. \int \frac{\sin(4 \arccos x) + 1}{\sqrt{1 - x^2}} dx$$

$$9. \int \frac{x^5 dx}{\sqrt{6 - 7x^2}}$$

$$10. \int e^{e^x + x} dx$$

$$11. \int x \cdot \sqrt[6]{3 - 2x^2} dx$$

$$12. \int \frac{11 - \ln 2x}{x} dx$$

$$13. \int \frac{\sqrt{1-x} - \sqrt{1+x}}{\sqrt{1-x^2}} dx$$

$$14. \int \frac{x - \operatorname{arctg} x}{x^2 + 1} dx$$

$$15. \int \frac{\cos 2x dx}{\sqrt{6 - \sin 2x}} dx$$

$$16. \int \frac{x dx}{(1 + x^2)^2}$$

$$17. \int \frac{(5 - 2x)^2}{\sqrt[3]{x^2}} dx$$

$$18. \int \frac{dx}{\sqrt{2x} \operatorname{ctg} \sqrt{3x}}$$

$$19. \int \frac{\cos x}{\sqrt{9 + \cos 2x}} dx$$

$$20. \int \frac{e^{-3x}}{5 - e^{-2x}} dx$$

$$21. \int \frac{5x^2 + 3 \ln 4x^2}{x} dx$$

$$22. \int \frac{3x + 7}{\sqrt{x}} dx$$

$$23. \int \frac{dx}{\sqrt{2x} (7 + 3x)}$$

$$24. \int \frac{e^{-\operatorname{tg} x} dx}{1 - \sin^2 x}$$

$$25. \int \sqrt{1 - \cos 14x} dx$$

$$26. \int (3x - 1)^2 (3x + 1)^2 dx$$

$$27. \int \frac{5 \operatorname{arctg} x - 13}{1 + x^2} dx$$

$$28. \int x^2 \cdot e^{-3x^3} dx$$

$$29. \int \frac{6x dx}{(5x - 6)^4}$$

$$30. \int \frac{x^2 - 6x - 4}{\left(\sqrt{4 - x^2}\right)^3} dx$$

$$1. \int \frac{3e^{5x} + 7e^x}{e^{3x}} dx$$

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

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

$$4. \int e^{x^2 + \ln x} dx$$

$$5. \int \frac{7 dx}{\sqrt{12 - 5x}}$$

$$6. \int \frac{dx}{3x \sqrt{6 - \ln^2 x}}$$

$$7. \int \frac{\sin x \cos x dx}{\sqrt{3 \sin^2 x + 8 \cos^2 x}}$$

$$8. \int \frac{3^{1+2 \arctg x} dx}{x^2 + 1}$$

$$9. \int \frac{\sin^5 x}{\sqrt{\cos x}} dx$$

$$10. \int \frac{3x + 4}{\sqrt{2 - x^2}} dx$$

$$11. \int x^3 (1 + x^2)^{-2} dx$$

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

$$13. \int \frac{dx}{x [\ln(5x) - 1]}$$

$$14. \int x \cdot \sqrt{3 + 4x} dx$$

$$15. \int \frac{e^x dx}{\sqrt[3]{5 - e^x}}$$

$$16. \int \frac{\sqrt[5]{x^2} dx}{\sqrt{2 + 3x^{7/5}}}$$

$$17. \int \frac{\ln x dx}{x (5 - 6 \ln^2 x)}$$

$$18. \int \frac{x^5 dx}{\left(\sqrt{5 - x^2}\right)^5}$$

$$19. \int \frac{x dx}{(4x - 3)^3}$$

$$20. \int \frac{dx}{\cos^2 x \cdot \sqrt[5]{\operatorname{ctg}^2 x}}$$

$$21. \int \frac{dx}{6x - 7}$$

$$22. \int \frac{\sqrt[3]{x} dx}{\sqrt{2 + 3x^{4/3}}}$$

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

$$24. \int \frac{dx}{\sqrt{1 - x^2} \arccos^5 x}$$

$$25. \int e^{2x} \sqrt{6 - e^x} dx$$

$$26. \int \frac{e^{2x} - 1}{e^x - 1} dx$$

$$27. \int \sqrt{1 - \sin(2x + 1)} dx$$

$$28. \int \frac{dx}{\cos^2(4x + 3)}$$

$$29. \int \frac{\cos 6x dx}{\cos^2 3x}$$

$$30. \int \frac{dx}{\sqrt{4x} \cdot \sqrt{12 - 5x}}$$

$$1. \int \sin 2x \cdot e^{2\sin^2 x - 3} dx$$

$$2. \int x^2 \cdot \sqrt[3]{12 + x^3} dx$$

$$3. \int \frac{dx}{5 + e^{5x}}$$

$$4. \int \frac{\sqrt{3 \ln x - 11}}{x} dx$$

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

$$6. \int \frac{\sqrt[6]{\operatorname{ctg}^5 x}}{\cos^2 x} dx$$

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

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

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

$$10. \int \frac{e^{4x} dx}{\sqrt{1 - 2e^{2x}}}$$

$$11. \int \frac{x^2 dx}{\sqrt{x^3 + 3} - \sqrt{x^3}}$$

$$12. \int \frac{\sin 2x dx}{\sqrt{3 \sin^2 x + 4}}$$

$$13. \int \frac{5 \sin 2x dx}{\sqrt[4]{\sin^3 x}}$$

$$14. \int \frac{3 \ln x + 14}{x \sqrt{4 - 5 \ln x}} dx$$

$$15. \int \frac{x - 4}{\sqrt{2 - x}} dx$$

$$16. \int \frac{1}{x^2} \cdot \cos\left(\frac{1}{x} - 2\right) dx$$

$$17. \int \frac{x dx}{(7x - 4)^2}$$

$$18. \int \frac{2 - 3x}{\sqrt{2 - x^2}} dx$$

$$19. \int x \cdot \sqrt[4]{7 - 5x} dx$$

$$20. \int \frac{\sin 2x dx}{\sqrt{\cos 4x}}$$

$$21. \int \frac{\operatorname{arctg}^{-3} x}{x^2 + 1} dx$$

$$22. \int \frac{6 \cdot \ln x - 1}{x \cdot \ln^{-3} x} dx$$

$$23. \int 9x \cdot (9 + 7x^4)^{-1} dx$$

$$24. \int \frac{dx}{2 - 2 \cos^2 4x}$$

$$25. \int \frac{5x \operatorname{arctg} x + 11}{(1 + x^2) \operatorname{arctg} x} dx$$

$$26. \int \frac{2^{x+2} + 5^{x+3}}{4 \cdot 5^x} dx$$

$$27. \int \frac{3e^x - e^{-x}}{3e^x + e^{-x}} dx$$

$$28. \int \frac{x^4 dx}{3x^{10} + 2}$$

$$29. \int \frac{\sin^8 x}{\cos^{10} x} dx$$

$$30. \int \frac{x^3 dx}{(\sqrt{7 - x^2})^3}$$

$$1. \int \frac{\sin^7 3x}{\cos^6 3x} dx$$

$$2. \int \frac{5 dx}{7 - 2e^{-x}}$$

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

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

$$5. \int \frac{\cos 6x}{\sin^2 3x} dx$$

$$6. \int x^2 (1 - 12x^3)^2 dx$$

$$7. \int \frac{dx}{1 - \sin^2 2x}$$

$$8. \int x^3 \cdot \sqrt[7]{7 - 2x^4} dx$$

$$9. \int \frac{\sin(5 \arccos x + 4)}{\sqrt{1 - x^2}} dx$$

$$10. \int \frac{\sqrt[3]{\operatorname{ctg}^7 x}}{\sin^2 x} dx$$

$$11. \int \frac{6x^3}{(5 + x^2)^4} dx$$

$$12. \int \frac{4 + e^{4x}}{e^{4x}} dx$$

$$13. \int \frac{\sqrt{e^{2x} + 5}}{e^{-2x}} dx$$

$$14. \int \frac{x}{(1 - x)^{100}} dx$$

$$15. \int \frac{6 + 7 \ln(2x - 2)}{3(x - 1)} dx$$

$$16. \int \frac{dx}{\sqrt{x} \sqrt{1 - 2x}}$$

$$17. \int \frac{6 + 5 \operatorname{tg} x}{4 \cos^2 x} dx$$

$$18. \int \frac{dx}{\sin^4 2x}$$

$$19. \int x^2 \sin 2x^3 dx$$

$$20. \int \frac{dx}{\sqrt{1 + 2x - 2x^2}}$$

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

$$22. \int \frac{dx}{x \sqrt{5 \ln x + 3}}$$

$$23. \int \frac{\sqrt{3 \operatorname{tg} x}}{\cos^2 x} dx$$

$$24. \int \frac{7x dx}{\sqrt{5 - 12x^2}}$$

$$25. \int \frac{3x - 1}{x^2 + 10} dx$$

$$26. \int \frac{e^{-4x} + 2e^{4x}}{e^{-4x} - 2e^{4x}} dx$$

$$27. \int x \sqrt{6 + x} dx$$

$$28. \int \frac{dx}{\sqrt{(1 - x^2) \arcsin^{-5} x}}$$

$$29. \int \frac{1 + x}{\sqrt{1 - 3x^2}} dx$$

$$30. \int \frac{\cos^3 x}{\sqrt[3]{\sin x}} dx$$

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

$$2. \int \frac{dx}{\sqrt[5]{7x-1}}$$

$$3. \int \frac{dx}{5-3e^x}$$

$$4. \int \frac{\ln x - 3}{x\sqrt{\ln x}} dx$$

$$5. \int \frac{2\operatorname{arctg} x + 3x}{1+x^2} dx$$

$$6. \int \sin 2x \left(e^{-2\cos^2 x} - 3 \right) dx$$

$$7. \int \frac{x dx}{\sqrt{4-3x^2}}$$

$$8. \int (x-1)\sqrt{2-x} dx$$

$$9. \int \frac{dx}{x\sqrt{4-6\ln^2 3x}}$$

$$10. \int \frac{e^x dx}{\sqrt{5-e^x}}$$

$$11. \int \frac{2x^3 - 3x}{7x^4 + 9} dx$$

$$12. \int \frac{\cos^3 x}{\sin x} dx$$

$$13. \int \frac{\sin x \cos x dx}{\sqrt{5\sin^2 x - 7\cos^2 x}}$$

$$14. \int \frac{x^2 dx}{(3-x)^8}$$

$$15. \int \frac{4\operatorname{arctg}^{-4} 3x}{9x^2 + 1} dx$$

$$16. \int \frac{(5+2x)^2}{3+x^2} dx$$

$$17. \int \frac{\ln x + 1}{x(2\ln^2 x + 3)} dx$$

$$18. \int \frac{x^3 - 3x}{3+x^4} dx$$

$$19. \int \frac{e^{4x}}{2e^{2x} + 3} dx$$

$$20. \int \frac{2x-1}{\sqrt{1-x^2}} dx$$

$$21. \int \frac{dx}{\sqrt{9-16x^2}}$$

$$22. \int x^5 \cdot \sqrt[4]{2+3x^3} dx$$

$$23. \int \frac{\sin x dx}{\sqrt{\cos x + 11}}$$

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

$$25. \int \frac{4x-9}{x^2-x+5} dx$$

$$26. \int \frac{3\arcsin x - 7}{5\sqrt{1-x^2}} dx$$

$$27. \int \frac{\sin 2x dx}{\sqrt{\sin x}}$$

$$28. \int \frac{\sin 2x dx}{\sqrt{\cos^7 x}}$$

$$29. \int \left(5e^{x/3} - e^{-x/4} \right) dx$$

$$30. \int \frac{x^2 dx}{\sqrt{9-x^3}}$$

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

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

$$3. \int \frac{\ln 3x \, dx}{x(4 + 5 \ln^4 3x)}$$

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

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

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

$$7. \int \sqrt{\frac{\arcsin^3 x}{1 - x^2}} dx$$

$$8. \int \frac{dx}{1 - \cos^2 4x}$$

$$9. \int \frac{e^x}{3 + e^{2x}} dx$$

$$10. \int \frac{\sin x \, dx}{e^{\cos x}}$$

$$11. \int \frac{x^5 \, dx}{(1 + x^2)^3}$$

$$12. \int \sqrt{1 - \sin 4x} \, dx$$

$$13. \int \frac{dx}{\sqrt{2x - x^2}}$$

$$14. \int \frac{3 + 2 \ln x}{5x} dx$$

$$15. \int \frac{\sqrt{1 - x} - \sqrt{1 + x}}{\sqrt{1 - x^2}} dx$$

$$16. \int \frac{\sqrt[4]{\arctg 2x} + x}{1 + 4x^2} dx$$

$$17. \int x^2 \sqrt{3 - 2x^3} \, dx$$

$$18. \int \frac{2x^3 - 5x}{(4 + x^2)^2} dx$$

$$19. \int \cos^2 2x \sin^2 x \, dx$$

$$20. \int \frac{x^3 \, dx}{(1 - x^3)^{10}}$$

$$21. \int \frac{\sin x \, dx}{5 - \cos x} dx$$

$$22. \int e^{2x} \sqrt{3 + 2e^x} \, dx$$

$$23. \int \frac{dx}{\sqrt{x} \cdot \sqrt{7 - 3x}}$$

$$24. \int \frac{3x^2 + 5 \ln^2 x^2}{x} dx$$

$$25. \int \frac{x^5 \, dx}{3 + x^{12}}$$

$$26. \int \frac{x \arctg x^2 - 3x^3}{1 + x^4} dx$$

$$27. \int \frac{\sin^5 x}{\cos x} dx$$

$$28. \int \frac{dx}{1 - \cos 4x}$$

$$29. \int \frac{x \, dx}{1 - 2x^2}$$

$$30. \int \frac{x \, dx}{e^{x^2}}$$