

ZADANIA DODATKOWE :)

I CAŁKI

1. $\int \frac{dx}{\sqrt{5x-2}}$; 2. $\int \frac{x dx}{\sqrt{1+x^4}}$; 3. $\int x^2 e^{x^3} dx$; 4. $\int \frac{\operatorname{arctg} \frac{x}{2}}{4+x^2} dx$; 5. $\int \frac{e^x}{\sqrt{1-e^{2x}}} dx$;
6. $\int \frac{\sqrt[3]{1+\ln x}}{x} dx$; 7. $\int \frac{\sin x \cdot \cos x}{\sqrt{2-\sin^4 x}} dx$; 8. $\int \frac{x+\arcsin x}{\sqrt{1-x^2}} dx$; 9. $\int x(5x^2-3)^7 dx$; 10. $\int \frac{\cos x}{\sqrt{1+\sin^2 x}} dx$;
11. $\int \arcsin x dx$; 12. $\int x e^{-x} dx$; 13. $\int x^2 \ln x dx$; 14. $\int \ln^2 x dx$; 15. $\int x^3 e^{-x^2} dx$;
16. $\int e^{\sqrt{x}} dx$; 17. $\int \frac{x^2 dx}{\sqrt{9-x^2}}$; 18. $\int \frac{x dx}{(x-1)(x+1)^2}$; 19. $\int \frac{dx}{x^3-2x^2+x}$; 20. $\int \frac{2x^2+41x-91}{(x-1)(x+3)(x-4)} dx$;
21. $\int \frac{dx}{x(x+1)^2}$; 22. $\int \frac{5x^2+6x+9}{(x-3)^2(x+1)^2} dx$; 23. $\int \frac{x^3+x+1}{x(x^2+1)} dx$; 24. $\int \frac{x^4}{x^4-1} dx$; 25. $\int \frac{dx}{x^2+2x+5}$;
26. $\int \frac{3x-2}{x^4-4x^2+5} dx$; 27. $\int \frac{x dx}{x^4-x^2+3}$; 28. $\int \frac{\cos x}{\sin^2 x-6 \sin x+12} dx$; 29. $\int \frac{dx}{\sqrt{2+3x-2x^2}}$; 30. $\int \frac{x+3}{\sqrt{x^2+2x+3}} dx$;
31. $\int \sqrt{1-2x-x^2} dx$; 32. $\int \frac{3x-6}{\sqrt{x^2-4x+5}} dx$; 33. $\int \frac{x^2 dx}{\sqrt{x^2-x+1}}$; 34. $\int \frac{x^5 dx}{\sqrt{1-x^2}}$; 35. $\int \sin^2 x \cdot \cos^3 x dx$;
36. $\int \sin^5 x dx$; 37. $\int \sin 3x \cdot \cos 5x dx$; 38. $\int \sin 10x \cdot \sin 15x dx$; 39. $\int \frac{dx}{1+\sin x+\cos x}$; 40. $\int \frac{dx}{\cos x+2 \sin x+3}$.