
Cvičenie 18.3.2003*Určitý integrál, substitučná metóda a metóda per partes pre určitý integrál**Určitý integrál:*

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|--|--|--|---|--|
| 1. $\int_0^3 1-3x dx$ | 2. $\int_{-4}^{-2} \frac{1}{x} dx$ | 3. $\int_0^\pi \cos x dx$ | 4. $\int_0^\pi \cos x dx$ | 5. $\int_0^\pi \sin^3 x dx$ |
| 6. $\int_0^{\frac{\pi}{2}} \cos x \cdot \sin^2 x dx$ | 7. $\int_0^1 \frac{\sqrt{x}}{1+\sqrt{x}} dx$ | 8. $\int_{-1}^1 \frac{dx}{(1+x^2)^2}$ | 9. $\int_0^{\sqrt{2}} \sqrt{4-x^2} dx$ | 10. $\int_0^{\ln 5} \frac{e^x \sqrt{e^x-1}}{e^x+3} dx$ |
| 11. $\int_1^2 \frac{dx}{\sqrt{3+2x-x^2}}$ | 12. $\int_0^{\frac{\pi}{2}} \frac{\sin \varphi}{6-5 \cos \varphi + \cos^2 \varphi} d\varphi$ | 13. $\int_0^1 x e^{-x} dx$ | 14. $\int_1^e \ln x dx$ | 15. $\int_0^{\frac{\pi}{2}} x \sin x dx$ |
| 16. $\int_1^2 x \ln x dx$ | 17. $\int_0^1 x^3 e^{2x} dx$ | 18. $\int_0^{\frac{\pi}{2}} e^{2x} \sin x dx$ | 19. $\int_{\frac{\pi}{4}}^{\frac{\pi}{3}} x \sin^{-2} x dx$ | 20. $\int_{-1}^1 \arccos x dx$ |
| 21. $\int_0^{\sqrt{3}} x \arctg x dx$ | 22. $\int_0^{\ln 2} x \cosh x dx$ | 23. $I_n = \int_0^{\frac{\pi}{2}} \sin^n x dx$ | | |
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