Desať príkladov na derivácie:

Zderivujte funkciu $f(x)$, ak:

1. $f(x) = \sin(\cos 2x) + \ln\sqrt{\cos x}$.
2. $f(x) = 2^{\operatorname{tg} x} - x^{\frac{1}{x}}$.
3. $f(x) = \operatorname{arccotg}^3(\sqrt{x})$.
4. $f(x) = \arcsin(\frac{\ln x}{2})$.
5. $f(x) = \operatorname{arccotg}\frac{x}{1+x^2}$.
6. $f(x) = 10^{\sqrt{x}}x$.
7. $f(x) = (\ln x)^x + \frac{\cos^2 x}{\sqrt[5]{x}}$.
8. $f(x) = 3^{\operatorname{cotg} x}\arcsin x$.
9. $f(x) = \frac{\log_5(\operatorname{tg} x^3)}{\ln\left(\operatorname{arctg}(\sqrt{5x})\right)}$.
10. $f(x) = e^{x^3}\operatorname{arccotg} x$.