PODSTAWOWE WZORY POCHODNYCH FUNKCJI

1. $(c)' = 0$
2. $(x^n)' = nx^{n-1}$
3. $(ax)' = a$
4. $(\frac{1}{x})' = -\frac{1}{x^2}$
5. $(\sqrt{x})' = \frac{1}{2\sqrt{x}}$
6. $(\sin x)' = \cos x$
7. $(\cos x)' = -\sin x$
8. $(tgx)' = \frac{1}{\cos^2 x}$
9. $(ctgx)' = -\frac{1}{\sin^2 x}$
10. $(a^x)' = a^x \ln a$
11. $(e^x)' = e^x$
12. $(\ln x)' = \frac{1}{x}$
13. $(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}$
14. $(\arccos x)' = \frac{-1}{\sqrt{1-x^2}}$
15. $(arctgx)' = \frac{1}{1+x^2}$
16. $(arcctgx)' = \frac{-1}{1+x^2}$

$(f \pm g)' = f' \pm g'$

$(f \cdot g)' = f' \cdot g + f \cdot g'$

$(\frac{f}{g})' = \frac{f' \cdot g - f \cdot g -}{g^2}$

$[f(g)]' = f' \cdot g'$