Wzory na pochodne:

1. $(C)' = 0$

2. $(x^n)' = nx^{n-1}$

3. $(x)' = 1$

4. $\left(\dfrac{a}{x}\right)' = -\dfrac{a}{x^2}$

5. $\left(\sqrt{x}\right)' = \dfrac{1}{2\sqrt{x}}$

6. $(a^x)' = a^x \ln a$

7. $(e^x)' = e^x$

8. $(\log_a x)' = \dfrac{1}{x \ln a}$

9. $(\ln x)' = \dfrac{1}{x}$

10. $(\sin x)' = \cos x$

11. $(\cos x)' = -\sin x$

12. $(tgx)' = \dfrac{1}{\cos^2 x}$

13. $(ctgx)' = -\dfrac{1}{\sin^2 x}$

14. $(\arcsin x)' = \dfrac{1}{\sqrt{1-x^2}}$

15. $(\arccos x)' = -\dfrac{1}{\sqrt{1-x^2}}$

16. $(arctgx)' = \dfrac{1}{x^2+1}$

17. $(arcctgx)' = -\dfrac{1}{x^2+1}$

Właściwości pochodnych:

1. $\left[f(x)+g(x)\right]' = f'(x)+g'(x)$

2. $\left[f(x)-g(x)\right]' = f'(x)-g'(x)$

3. $\left[a \cdot f(x)\right]' = a \cdot f'(x)$

4. $\left[f(x) \cdot g(x)\right]' = f'(x)g(x)+f(x)g'(x)$

5. $\left[\dfrac{f(x)}{g(x)}\right]' = \dfrac{f'(x)g(x)-f(x)g'(x)}{\left[g(x)\right]^2}$

Wzory przydatne w liczeniu pochodnych:

$$\sqrt[b]{x^a} = x^{\frac{a}{b}}$$

$$\frac{1}{x^a} = x^{-a}$$