Wzory na pochodne wybranych funkcji 1

 $c \in \mathbb{R}$ $\alpha \in \mathbb{R}$

$$c' = 0,$$

$$(x^{\alpha})' = \alpha x^{\alpha - 1},$$

$$(a^{x})' = a^{x} \ln a,$$

$$(e^{x})' = e^{x},$$

$$(10g_{a} x)' = \frac{1}{x \cdot \ln a},$$

$$(10g_{a} x)' = \frac{1}{x},$$

$$(10x)' = \frac{1}{x},$$

$$(10x)' = -\sin x,$$

$$(10x)' = \frac{1}{\cos^{2} x},$$

$$(10x)' = \frac{1}{\sin^{2} x},$$

$$(10x)' = \frac{1}{(1 - x^{2})^{2}},$$

$$(11x)' = \frac{1}{(1 - x^{2})^{2}},$$

$$(12x)' = \frac{1}{(1 - x^{2})^{2}},$$

$$(13x)' = \frac{1}{(1 - x^{2})^{2}},$$

$$(14x)' = \frac{1}{(1 - x^{2})^{2}},$$

$$(15x)' = \frac{1}$$

(18)

Pochodna sumy, różnicy, iloczynu, ilorazu funkcji 2

$$(f(x) + g(x))' = f'(x) + g'(x)$$
(19)

$$(c \cdot f(x))' = c \cdot f'(x),$$
 $c - \text{liczba}$ (20)

$$(c \cdot f(x))' = c \cdot f'(x), \qquad c - \text{liczba}$$

$$(f(x) \cdot g(x))' = f'(x) \cdot g(x) + f(x) \cdot g'(x) \qquad (21)$$

$$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{g^2(x)}, \quad \text{o ile } g \neq 0$$
 (22)

(23)