MORY NA POCHODNA

$$4.(C)^{1}=0$$

$$2.(x^{m}) = m.x^{m-1}$$

$$3. (x) = 1$$

$$4 \cdot \left(\frac{e}{x}\right) = -\frac{e}{x^2}$$

$$5.\left(\sqrt{x}\right)^{2}=\frac{1}{2\sqrt{x}}$$

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

8.
$$(\log_{\alpha}x)' = \frac{1}{x \cdot \ln \alpha}$$

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

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

$$41.(\cos x)' = -8imx$$

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

13.
$$(ctgx)^{2} = -\frac{1}{sim^{2}x}$$

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

MANNEON DE MODRICH

1.
$$f(x) + g(x) = f(x) + g(x)$$

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

$$3 \cdot \left[c \cdot f(x) \right]_{x} = c \cdot f(x)$$

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

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

SUMBOLE

NIEONA

CRONE

[8]

[8]

[9.0]

 $[\infty - \infty]$

[1/2]

[0°]

$$\frac{b}{x^0} = x^{\frac{1}{2}}$$

$$\frac{1}{x^0} = x^{\frac{1}{2}}$$

$$\begin{bmatrix} \Delta \\ \pm \infty \end{bmatrix} = 0$$

$$\lim_{x \to \infty} c \cdot f(x) = c \cdot \lim_{x \to \infty} f(x)$$

$$\lim_{x \to \infty} c \cdot f(x) = c \cdot \lim_{x \to \infty} f(x)$$

$$(a^{2}-b^{2}) = (a-b)(a+b) \qquad (x''+1) = (x^{2}-(7x+1)(x^{2}+17x+1))$$

$$(a^{3}-b^{3}) = (a-b)(a^{2}+ab+b^{2})$$

$$(a^{3}+b^{3}) = (a+b)(a^{2}-ab+b^{2})$$

$$(a^{m}-1) = (a-1)(a^{m}+a^{m}+1...+a+1)$$

$$(a^{m}-1) = (a^{m}+1...+a+1)$$

$$(a^{m}-1$$

$$\lim_{x\to 0} \frac{1-\cos x}{x} = \frac{1}{2}$$

1)
$$\int \frac{dx}{x} = \int \frac{1}{x} \cdot dx = \int x^{-1} \cdot dx = \ln|x| + C$$
2)
$$\int c \cdot dx = ex + C$$
3)
$$\int x \cdot c \cdot dx = \frac{1}{2} x^{2} + C$$
4)
$$\int c^{x} dx = \frac{c^{x}}{ua} + C$$

$$= \int x^{m} dx = \int x^{n+1} x^{n+1} + C$$
5)
$$\int e^{x} dx = e^{x} + C$$
6)
$$\int 8ux dx = -ucx + C$$
4)
$$\int cos \times c \cdot dx = 8ux + C$$
8)
$$\int t dx dx = -u \cdot |cos \times| + C$$
9)
$$\int c t dx dx = -u \cdot |sin \times| + C$$
10)
$$\int \frac{dx}{cos^{2}x} = t dx + C$$
11)
$$\int \frac{dx}{au^{2}x} = -ct dx + C$$
12)
$$\int \frac{dx}{x^{2}+a^{2}} = \frac{1}{a^{2}} \frac{u \cdot |x-a|}{x+a} + C$$
14)
$$\int \frac{dx}{x^{2}-a^{2}} = \frac{1}{a^{2}} \frac{u \cdot |x-a|}{x+a} + C$$
15)
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16)
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18)
$$\int \frac{dx}{\sqrt{x^{2}+q^{2}}} = \frac{1}{a^{2}} \frac{u \cdot |x+a|}{x^{2}+q^{2}} + C$$
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 $\int_{0}^{\infty} f(x) dx = \lim_{x \to \infty} \int_{0}^{\infty} f(x) dx$ $\int f(x)dx = \lim_{\epsilon \to b+} \int f(x)dx$ $\int_{\infty}^{\infty} f(x) dx = \lim_{\epsilon \to -\infty} \int_{\epsilon}^{\epsilon} f(x) dx =$ aniednie $\int_{\infty}^{\infty} f(x) dx = \int_{\infty}^{\infty} f(x) dx + \int_{\infty}^{\infty} f(x) dx = \int_{\infty}^{\infty} \int_{\infty}^{\infty} \int_{\infty}^{\infty} \int_{\infty}^{\infty} f(x) dx = \int_{\infty}^{\infty} \int_{\infty$ POLE OBSIARU $p = \int_{0}^{\infty} [f(x) - g(x)] dx$ ogravera ratur pt. tukul 2 gabry The flat L = f V1+ [-(x)2)1x OBJETOSOF obyEtost I (x)]dx $v = M \int_{x} \left[f_{3}(x) - g_{3}(x) \right] dx$ Que = Octou. vi OLE POWIERZCHNI 8 = 7 = 5 + (x) - (1 + ((x)) 5) 9 x Coslx = coslx - sulily die (x)>0 18m1x = 5.8mx.cos X (1)-hint(x) (1)-yo)=(xo)(x-xo) (C+6)2-02+3026+3062+63 $(a-b)^3 = a^3 - bc^2b + 3ab^2 - b^3$ Modej voietnost jednostoje Q3+63=(0+b)(02-06+62) Jecx toutur prochest vie v 03-63=(0-6)(02+06+62) (out) = (ol) (on-e+on-2+...+a+1) Alfucx)-fcxil=. $\cos 3d - \cos \beta = -2 \cdot 800 \frac{24B}{2} \cdot \sin \frac{24B}{2}$ $\cos 3d + \cos \beta = 2 \cdot \cos \frac{24B}{2} \cdot \cos \frac{24B}{2}$ 3) politice par x cochactepo pullety presidence 8/11x - Orly = 2. Sle 27. cos 27 Shat ship = 2. Mh dip. cos tip PLEMANN: Molostojen quence - rusti do · Sill (x+ny) = Silvx cosy + Cosx. Silvy Doubgedi his n i pad to comate my yn palsten x (tok oby we whohe byty tylko himby ix) COS(X+N) = COSX. OOSY - Six x 8/mg Sm(xn) = 8mx.cost - cosx smit 3) partitions do cottel 008(x-1y) = cos x. oosy + sh x. shy MACLAURINI (x0) (x-x0) 4 T= (x0)+ f(x0) + f(x0) + f(x0) x-x0) + chilandrit co were interest in the formal interest i

