Eksponencijalna funkcija:

$e^{x+iy} = \exp(x+iy) := e^x \operatorname{cis} y;$

$\exp : \mathbb{R} \times \langle \alpha, \alpha + 2\pi] \longrightarrow \mathbb{C}^* \quad$ je bijekcija ,
$\exp : \mathbb{R} \times \langle \alpha, \alpha + 2\pi\rangle \longrightarrow \mathbb{C}_\alpha \quad$ je bijekcija ;

$e^{z+2\pi i} = e^z; \quad e^{z_1+z_2} = e^{z_1} \cdot e^{z_2}; \quad \overline{e^z} = e^{\overline{z}}; \quad e^{-z} = e^{\frac{1}{z}};$
$(e^z)^{\frac{m}{n}} = e^{\frac{m}{n}(z+2k\pi i)}, \quad k = 0, 1, ..., n-1, \quad m, n \in \mathbb{N};$

Logaritamska funkcija:

$\operatorname{Ln} z = \ln|z| + i(\arg z + 2k\pi), k \in \mathbb{Z}, z \in \mathbb{C}^*$

$\operatorname{Ln}(z_1 \cdot z_2) = \operatorname{Ln} z_1 + \operatorname{Ln} z_2;$
$\operatorname{Ln}(\frac{z_1}{z_2}) = \operatorname{Ln} z_1 - \operatorname{Ln} z_2, \quad z_2 \neq 0;$

Opća potencija:

$a \in \mathbb{C}$ fiksan, $z \mapsto z^a := e^{a \operatorname{Ln} z}$, $z \in \mathbb{C}^*$

Opća eksponencijalna funkcija:

$a \in \mathbb{C}^*$ fiksan, $z \mapsto a^z := e^{z \operatorname{Ln} a}$, $z \in \mathbb{C};$

Trigonometrijske funkcije:

$\sin z := \frac{1}{2i}(e^{iz} - e^{-iz});$
$\cos z := \frac{1}{2}(e^{iz} + e^{-iz});$
$\operatorname{tg} z := \frac{\sin z}{\cos z}, \quad z \neq \frac{\pi}{2} + k\pi, k \in \mathbb{Z};$
$\operatorname{ctg} z := \frac{\cos z}{\sin z}, \quad z \neq k\pi, k \in \mathbb{Z};$

$\sin(z + 2\pi) = \sin z; \quad \sin(-z) = -\sin z;$
$\cos(z + 2\pi) = \cos z; \quad \cos(-z) = \cos z;$

$\sin(z_1 \pm z_2) = \sin z_1 \cos z_2 \pm \cos z_1 \sin z_2;$
$\cos(z_1 \pm z_2) = \cos z_1 \cos z_2 \mp \sin z_1 \sin z_2;$

$\sin^2 z + \cos^2 z = 1;$

Hiperbolne funkcije:

$\operatorname{sh} z := \frac{1}{2}(e^z - e^{-z});$
$\operatorname{ch} z := \frac{1}{2}(e^z + e^{-z});$
$\operatorname{th} z := \frac{\operatorname{sh} z}{\operatorname{ch} z}, \quad z \neq (\frac{\pi}{2} + k\pi)i, k \in \mathbb{Z};$
$\operatorname{cth} z := \frac{\operatorname{ch} z}{\operatorname{sh} z}, \quad z \neq k\pi i, k \in \mathbb{Z};$

$\operatorname{sh}(z + 2\pi i) = \operatorname{sh} z; \qquad \operatorname{sh}(-z) = -\operatorname{sh} z;$
$\operatorname{ch}(z + 2\pi i) = \operatorname{ch} z; \qquad \operatorname{ch}(-z) = \operatorname{ch} z;$

$\operatorname{sh}(z_1 \pm z_2) = \operatorname{sh} z_1 \operatorname{ch} z_2 \pm \operatorname{ch} z_1 \operatorname{sh} z_2;$
$\operatorname{ch}(z_1 \pm z_2) = \operatorname{ch} z_1 \operatorname{ch} z_2 \pm \operatorname{sh} z_1 \operatorname{sh} z_2;$

$\operatorname{ch}^2 z - \operatorname{sh}^2 z = 1;$

Veza trigonometrijskih i hiperbolnih funkcija:

$\sin(iz) = i \operatorname{sh} z; \qquad \operatorname{sh}(iz) = i \sin z;$
$\cos(iz) = \operatorname{ch} z; \qquad \operatorname{ch}(iz) = \cos z;$
$\operatorname{tg}(iz) = i \operatorname{th} z; \qquad \operatorname{th}(iz) = i \operatorname{tg} z;$
$\operatorname{ctg}(iz) = -i \operatorname{cth} z; \qquad \operatorname{cth}(iz) = -i \operatorname{ctg} z;$

Ciklometrijske funkcije:

$\operatorname{Arc}\sin z = -i \operatorname{Ln}(iz + \sqrt{1 - z^2}); \qquad \operatorname{Arc}\operatorname{tg} z = \frac{i}{2} \operatorname{Ln} \frac{i+z}{i-z};$
$\operatorname{Arc}\cos z = -i \operatorname{Ln}(z + \sqrt{z^2 - 1}); \qquad \operatorname{Arc}\operatorname{ctg} z = \frac{i}{2} \operatorname{Ln} \frac{z-i}{z+i};$

Area funkcije:

$\operatorname{Ar}\operatorname{sh} z = \operatorname{Ln}(z + \sqrt{z^2 + 1}); \qquad \operatorname{Ar}\operatorname{th} z = \frac{1}{2} \operatorname{Ln} \frac{1+z}{1-z};$
$\operatorname{Ar}\operatorname{ch} z = \operatorname{Ln}(z + \sqrt{z^2 - 1}); \qquad \operatorname{Ar}\operatorname{cth} z = \frac{1}{2} \operatorname{Ln} \frac{z+1}{z-1};$

Derivacije osnovnih funkcija:

$(z^n)' = nz^{n-1}$	$(\sin z)' = \cos z$	$(\operatorname{Arc}\sin z)' = \frac{1}{\sqrt{1-z^2}}$	$(\operatorname{sh} z)' = \operatorname{ch} z$	$(\operatorname{Ar}\operatorname{sh} z)' = \frac{1}{\sqrt{1+z^2}}$
$\left(\frac{1}{z^n}\right)' = -\frac{n}{z^{n+1}}$	$(\cos z)' = -\sin z$	$(\operatorname{Arc}\cos z)' = -\frac{1}{\sqrt{1-z^2}}$	$(\operatorname{ch} z)' = \operatorname{sh} z$	$(\operatorname{Ar}\operatorname{ch} z)' = \frac{1}{\sqrt{z^2-1}}$
$(\sqrt[n]{z})' = \frac{1}{n\sqrt[n]{z^{n-1}}}$	$(\operatorname{tg} z)' = \frac{1}{\cos^2 z}$	$(\operatorname{Arc}\operatorname{tg} z)' = \frac{1}{1+z^2}$	$(\operatorname{th} z)' = \frac{1}{\operatorname{ch}^2 z}$	$(\operatorname{Ar}\operatorname{th} z)' = \frac{1}{1-z^2}$
$(e^z)' = e^z$	$(\operatorname{ctg} z)' = -\frac{1}{\sin^2 z}$	$(\operatorname{Arc}\operatorname{ctg} z)' = -\frac{1}{1+z^2}$	$(\operatorname{cth} z)' = -\frac{1}{\operatorname{sh}^2 z}$	$(\operatorname{Ar}\operatorname{cth} z)' = \frac{1}{1-z^2}$
$(\operatorname{Ln} z)' = \frac{1}{z}$				
$(a^z)' = a^z \operatorname{Ln} a$				