Operazioni tra due numeri complessi

$\bar{z}_1 = a_1 + jb_1$ $\bar{z}_2 = a_2 + jb_2$ — Forma algebrica	Forma trigonometrica	Forma polare	Forma esponenziale
Somma	$\rho_{12} = \sqrt{(a_1+a_2)^2 + (b_1+b_2)^2}$ $\vartheta_{12} = \operatorname{arctg}\dfrac{b_1+b_2}{a_1+a_2}$ $\bar{z}_1 + \bar{z}_2 = \rho_{12}(\cos\vartheta_{12} + j\,\operatorname{sen}\vartheta_{12})$	$\bar{z}_1 + \bar{z}_2 = \rho_{12}\,\angle\vartheta_{12}$	$\bar{z}_1 + \bar{z}_2 = \rho_{12}\,e^{j\vartheta_{12}}$
Differenza	$\rho_{12} = \sqrt{(a_1-a_2)^2 + (b_1-b_2)^2}$ $\vartheta_{12} = \operatorname{arctg}\dfrac{b_1-b_2}{a_1-a_2}$ $\bar{z}_1 - \bar{z}_2 = \rho_{12}(\cos\vartheta_{12} + j\,\operatorname{sen}\vartheta_{12})$	$\bar{z}_1 - \bar{z}_2 = \rho_{12}\,\angle\vartheta_{12}$	$\bar{z}_1 - \bar{z}_2 = \rho_{12}\,e^{j\vartheta_{12}}$
Prodotto	$\bar{z}_1 \cdot \bar{z}_2 = \rho_1\rho_2[\cos(\vartheta_1+\vartheta_2) + j\,\operatorname{sen}(\vartheta_1+\vartheta_2)]$	$\bar{z}_1 \cdot \bar{z}_2 = \rho_1\rho_2\,\angle(\vartheta_1+\vartheta_2)$	$\bar{z}_1 \cdot \bar{z}_2 = \rho_1 e^{j\vartheta_1} \cdot \rho_2 e^{j\vartheta_2}$ $\bar{z}_1 \cdot \bar{z}_2 = \rho_{12} e^{j\vartheta_{12}}$ $\rho_{12} = \rho_1\rho_2$ $\vartheta_{12} = \vartheta_1 + \vartheta_2$
Quoziente	$\dfrac{\bar{z}_1}{\bar{z}_2} = \dfrac{\rho_1}{\rho_2}[\cos(\vartheta_1-\vartheta_2) + j\,\operatorname{sen}(\vartheta_1-\vartheta_2)]$	$\dfrac{\bar{z}_1}{\bar{z}_2} = \dfrac{\rho_1}{\rho_2}\,\angle(\vartheta_1-\vartheta_2)$	$\dfrac{\bar{z}_1}{\bar{z}_2} = \dfrac{\rho_1\,e^{j\vartheta_1}}{\rho_2\,e^{j\vartheta_2}} = \rho_{12}\,e^{j\vartheta_{12}}$ $\rho_{12} = \dfrac{\rho_1}{\rho_2}$ $\vartheta_{12} = \vartheta_1 - \vartheta_2$