

TEST 10-5

Goniometrické funkcie pre každé číslo $z \in \mathbf{C}$ definujeme takto:

$$1. \cos z = \sum_{n=0}^{\infty} (-1)^n \frac{z^{2n+1}}{(2n+1)!},$$

$$2. \sin z = \sum_{n=0}^{\infty} (-1)^n \frac{z^{2n}}{(2n)!},$$

$$3. \sin z = \frac{e^{iz} - e^{-iz}}{2i},$$

$$4. \cos z = \frac{e^{iz} + e^{-iz}}{2i}.$$