King Fahd University of Petroleum and Minerals MATH-302

Quiz 5

Name:- ID:- Sec.:01

(1) Find all values of z satisfying $\cos z = -3$.

(2) Find the values of z where $f(z) = |z|^2 - \bar{z}$ is differentiable.

(3) Check if the identity $\text{Ln}(z_1z_2)=\text{Ln}(z_1)+\text{Ln}(z_2)$ is true for $z_1=i$, $z_2=-1+i$.

King Fahd University of Petroleum and Minerals MATH-302

Quiz 5

Name:- ID:- Sec.:05

(1) Find all values of z satisfying $\sinh z = -i$.

(2) Find the values of z where $f(z) = |z|^2 - \bar{z}$ is differentiable.

(3) Check if the identity $\text{Ln}(z_1z_2)=\text{Ln}(z_1)+\text{Ln}(z_2)$ is true for $z_1=i$ and $z_2=-1+i$.