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 $\mathrm{Ln}(z_1 z_2) = \mathrm{Ln}(z_1) + \mathrm{Ln}(z_2)$ is true for $z_1 = i$, $z_2 = -1 + i$.

(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 $Ln(z_1z_2) = Ln(z_1) + Ln(z_2)$ is true for $z_1 = i$ and $z_2 = -1 + i$.