Math 222-Quiz-3 (84)

Name: _____

ID: _____ Marks: [ ] / [5]

Question 1

For the complex number $z = \frac{1}{\sqrt{2}} + \frac{i}{\sqrt{2}}$. Find (i) $\bar{z}$ (ii) r (iii) θ (write all details)

Question 2

Prove the given identity $\frac{\tan\theta}{\csc\theta - \cot\theta} - \frac{\sin\theta}{\csc\theta + \cot\theta} = \sec\theta + \cos\theta$ (all details are needed)