Math-1153 Class Test 02 Section BB

1. Describe the set of points z in the complex plane that satisfies $|z-1| = |z-i|$. [3]

2. Find the modulus and argument of $\frac{-3(-1-i)^3}{i+i^4}$. [2]

3. Write $\frac{3e^{1+\pi i}}{e^{\frac{\pi}{2}i}}$ in the $a+ib$ form. [2]

4. Find all the values of $\left(\frac{\sqrt{3}-i}{i}\right)^{\frac{1}{5}}$. [3]