ATTEMPTED

1 Question 1

$a \in \mathbb{R}$, $b \in \mathbb{R}$ then by the mapping g , g(a) $\in \mathbb{R}$ and g(b) $\in \mathbb{R}$. Suppose a,b $\in \mathbb{N}$ and $\mathbb{N} \subset \mathbb{R}$, then by the principle of recursive definition there exists a function ϕ such that $\phi(a + b) = \phi(a) + \phi(b)$ and $\phi(ab) = \phi(a)\phi(b)$.

2   Question 2

3   Question 3