

2. Let A be a subset of \mathbb{R} with n elements, where $n \in \mathbb{N}$. Then A is bounded.

3. Complete and defend:

Suppose that f and g are both odd functions from \mathbb{R} to \mathbb{R} . Then $f \circ g$ is _____.

4. If $f:A \rightarrow B$ and $g:B \rightarrow C$ are surjective functions, then $g \circ f$ is surjective.

5. Prove, directly from the definitions: If A is a denumerable set, and $b \notin A$, then $A \cup \{b\}$ is denumerable.