Hints to homework 9:

- 1. See if you remember any theorems about what happens if $g \circ f$ is bijective to get an idea of whether it is true or not, and why so. When doing the actual proof I am guessing the intended solution is for you NOT to use these theorems however.
- 3. Try drawing it out. See the image attached.

The rest is just checking definitions or seeing if you remember how to use some tools from high school relating to functions.