

Name _____

Math 541

Quiz I

September 15, 2000

Suppose that $f \in A(S)$. Define $F : A(S) \rightarrow A(S)$ by

$$F(g) = f \circ g \circ f^{-1}$$

for $g \in A(S)$. Show that

$$F(g \circ h) = F(g) \circ F(h).$$

What is $F(\text{id}_S)$?