Name: . . . .

1] Fill in the blanks!

Proposition. A function $f\colon A \to B$ is bijective if and only if there exists a function f^{-1} from … to …

such that . . . .

and . . . .

2] Prove that if $f\colon S \to T$ is surjective and $g\colon T \to U$ and $h\colon T \to U$ are such that $g \circ f = h \circ f$, then $g = h$.