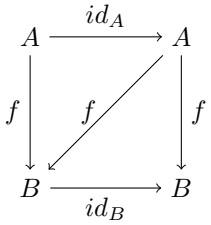
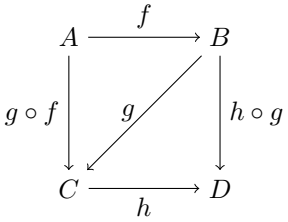
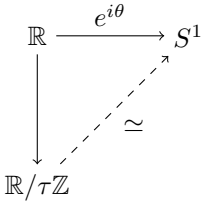
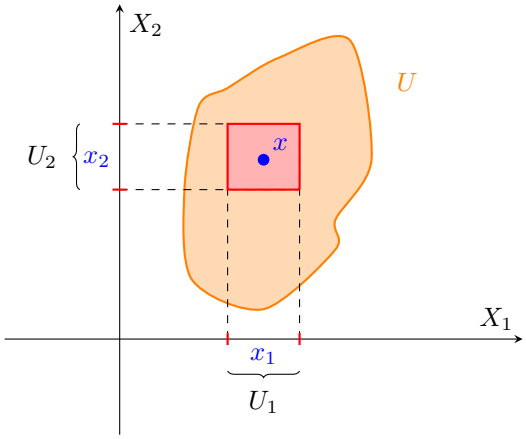


$id_B \circ f = f = f \circ id_A$



$(h \circ g) \circ f = h \circ (g \circ f)$