HASH-1)

$aesenc(M_1, IV) = C$

$aesenc(M_2, C) = hash$

Therefore

$aesdec(C, IV) = M_1$

$aesdec(hash, C) = M_2$

set $C = 10101010\ 1010\ 1010$

$M_1 = 1010111101000001$

$M_2 = 1110\ 0000\ 0010\ 0000$

$aesenc(M_1, IV) = 1010101010101010 = C$

$aesenc(M_2, C) = 1111\ 1111\ 1111\ 1111 = hash$

MAC-1) $mackey = 0100\ 1100\ 1000\ 0011$

$me = 0110\ 1101\ 0110\ 0101$

$mo = 0110\ 1101\ 0110\ 1111$

$ry = 0111\ 0010\ 0111\ 1001$

$x = aesenc(me, mackey)$

$y = aesenc(mo, x)$

$z = aesenc(ry, y) = 1011\ 0110\ 1110\ 0110$