HR 1.  $C(\infty, \infty)$ : The Axiom of Choice: Every set of non-empty sets has a choice function.

HR 174( $\alpha$ ).  $RM1, \aleph_{\alpha}$ : The representation theorem for mu

HR 114. Every A-bounded  $T_2$  topological space is weakly Loeb. (A-bounded means amorphous subsets are relatively compact. Weakly Loeb means the set of non-empty closed subsets has a multiple choice function.)

HR 174( $\alpha$ ).  $RM1, \aleph_{\alpha}$ : The representation theorem for multialgebras with  $\aleph_{\alpha}$  unary operations: Assume (A, F) is a multi-algebra with  $\aleph_{\alpha}$  unary operations (and no other operations). Then there is an algebra (B, G) with  $\aleph_{\alpha}$  unary operations and an equivalence relation E on B such that (B/E, G/E) and (A, F) are isomorphic multi-algebras.

HR 91. PW: The power set of a well ordered set can be well ordered.

HR 277. E(D, VII):
Every non-wellorderable cardinal
is decomposable.

HR 362. In  $\mathbb{R}$ , every Borel set is analytic.

 $HR \ 0. \ 0 = 0.$