() a) fun union [] = y = y not noon as y) then union as (x::y)

fun intersection [] = []

intersection 3:35 y : if member a y then a : (intersections ons y)

Where the definition of number:

fun member e (x::xs) = if e=x then true
les member e (x::xs) = if e=x then true

(n) on a recursive allo each time alling member which has O(n)

intersection O(nº) for the same reason as above

in far junione produced either construct in order or sort after some from a stone (can also

Sort after would give O(n2) so sorting can be done in O(ndogn) if merge sort used so O(n) still dominates

Not suce what best way of constructing the union set in Brokes or intersection set