4.5 Precipitation (A): - Runny (A); Snowing (A).

Snowing (A,B): - (Freezing (A), Precipitation (B)).

Raining (A,B): - (not (Freezing (A)), Precipitation (B)).

Precipitation (Snowing).

?- Freezing(A)

no

?- Raming (A)

no

The Only fact that it is Snowing can be deduced therefore Freezing & Raining are false. The clauses can't be rearranged for better answers.

gcd (u, v, w): - uin(u, v, x), divisor (u, v, x, w) 4.7 min (u,v,u):- u L V. min (u, v, v): - u >= v. divisor(u,v,x,x): - divides (u,x), divides (v,x)!.
divisor(u,v,x,w): - y is x-1, divisor(u,v,y,w). divides (u, x): - 4 is u and x, 4=0. Euclid's efficiency is O(log(min(a,b))) Whereas this is less efficient at OW

4.19 member (x, [x | -)). member (x, [-12]): - member (x, L). 2 - Crember (x, [2,3]) cifex==2 or x==3 return true wember (2, L) > if 2 E2 & Vetwo vesult [2#1] [261] member (x, [2,3]) false tax

4.29 Sort is a built in list operation that would throw an error if overloaded. The Predicate must durid names of current bailt in Predicates in order to implement