

# Lattices

Wednesday, March 30, 2022 1:04 PM

Recall: LUB, GLB

Missing: on Quiz 3  
+B #9

**Ramadan Time:**  
**Sun/Tue @ 21:30**

LUB: least upperbound of  $A$  if  $x \leq u_i \quad \forall$  U.B.  $u_i$  of  $A$   
GLB: greatest lowerbound of  $A$  if  $l_i \leq y \quad \forall$  L.B.  $l_i$  of  $A$

Objective: To find patterns in mathematical structures.

1] Def<sup>n</sup>, a poset is called a lattice if every two elements have both LUB and GLB

2] e.g.

