

Definition (Lower bounds in a poset). The *lower bounds* of a subset A of a poset P are, if they exist, the elements which are dominated by all elements in A . The *greatest lower bound*, if it exists, is the greatest among the lower bounds of A . This is denoted $\bigwedge A$ or $\text{Inf } A$ and also called the *meet* or *infimum* of A .