Definition (Antitone map). An *antitone map* between two posets $\langle \mathbf{P}, \leq_{\mathbf{P}} \rangle$ and $\langle \mathbf{Q}, \leq_{\mathbf{Q}} \rangle$ is a map that reverses the ordering, in the sense that

 $p_1 \leq_{\mathbf{P}} p_2 \Rightarrow f(p_1) \leq_{\mathbf{O}} f(p_2).$