- A monotone map between two posets $\mathbf{P} = \langle \mathbf{P}, \leq_{\mathbf{P}} \rangle$ and $\mathbf{Q} = \langle \mathbf{Q}, \leq_{\mathbf{O}} \rangle$ is a map f

that preserves the ordering, in the sense that

Definition (Monotone map)

 $p_1 \leq_{\mathbf{P}} p_2$

 $f(p_1) \leq_{\mathbf{Q}} f(p_2)$

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