

# Fixpoint Equations in Lattices

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- Therefore, if  $(D, \sqsubseteq, \wedge, \vee)$  is a finite lattice, fixpoint theorem #2 applies even if some of the functions  $f, g$  etc. are  $\wedge$  or  $\vee$ .
- Similarly, if  $(D, \sqsubseteq, \vee)$  is a finite join semi-lattice, fixpoint theorem #2 applies even if some of the functions are  $\vee$ .

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- Do these ideas and techniques carry over to infinite sets?