Remark 2.2. *[2DM]The symbols $\wedge$ and $\vee$ can be used in two different contexts, where they assume different meanings.*

- *If $x, y \in \mathbb{R}$ are real numbers, then $x \wedge y$ is the minimum of the two numbers, while $x \vee y$ is the maximum of the two numbers. This meaning is also appropriate when x, y are in a totally ordered set. [a]*

- *In mathematical logic, $\wedge$ is the* conjunction *and $\vee$ is the* disjunction. *See [00D].*

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[a] $\wedge$ and $\vee$ are also used in partially ordered set, but we will not discuss their definition in this text.