

Remark 3.74. [1Y7] It is customary to write $a \geq b$ as a synonym for $b \leq a$. If $a \leq b \wedge a \neq b$ we will write $a < b$; similarly if $a \geq b \wedge a \neq b$ we write $a > b$. Beware that if the relation is not total, it is not true in general that $\neg(a \leq b)$ is equivalent to $a > b$. See in this regard the exercise [067].