

Exerc: $(L, \leq) \rightarrow \text{lattice}$, $L \neq \emptyset$; $(M, \subseteq) \rightarrow \text{poset}$, $M \neq \emptyset$;
 $f: L \rightarrow M$, $f \uparrow$, bij

Ad $\Rightarrow 1 \rightarrow$ Norm. de potestas (i.e. $p \nmid n$) $\left(\xrightarrow[\text{quod non}]{\text{non}}$ $(H, \leq) \nmid \text{lenf} \right)$

PEZ i

P_p abs. $(\exists x, y \in M) x \equiv y \wedge \varphi^T(x) \not\equiv \varphi^T(y)$

$$\left. \begin{array}{l} f^{-1}(x) \neq f^{-1}(y) \\ (<, \leq) \rightarrow \text{long} \end{array} \right\} \rightarrow \left\{ \begin{array}{l} f^{-1}(y) \leq f^{-1}(x) \\ f^{-1}(x) \neq f^{-1}(y) \end{array} \right. \xrightarrow{\text{f.m.p.}} \begin{array}{l} f(f^{-1}(y)) \leq f(f^{-1}(x)) \\ f(f^{-1}(x)) \neq f(f^{-1}(y)) \end{array} \xrightarrow{\text{f.m.p.}} \begin{array}{l} y \leq x \\ y \neq x \end{array}$$

$\Rightarrow \begin{cases} y \subseteq x \\ x \neq y \end{cases} \Rightarrow x \neq y$
 $\Rightarrow y \subset x$
 $\Rightarrow \text{No} \Rightarrow \text{False} \Rightarrow \text{No}$