Definition (Monotone map). A monotone map between two posets $\langle P, \leq_p \rangle$

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

and
$$\langle \mathbb{Q}, \leq_{\mathbb{Q}} \rangle$$
 is a map f that preserves the ordering, in the sense that
$$p_1 \leq_{\mathbb{R}} p_2$$

 $f(p_1) \leq_0 f(p_2)$