

$$5. \quad (a) \quad \dots \forall x_1, x_2 \in \mathbb{R}, x_1 \leq x_2 \implies f(x_1) \geq f(x_2)$$

$$(b) \quad \dots \exists x_1, x_2 \in \mathbb{R}, x_1 \leq x_2 \wedge f(x_1) < f(x_2)$$