

نام: داریوش - شماره دانشجویی: 96109674 - تاریخ: 8

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$$\tilde{f}(w) = \sup_{z \in Z} f(w, z) \geq f(w, z)$$

$$\tilde{f}(z) = \inf_{w \in W} f(w, z) \leq f(w, z)$$

$$\Rightarrow \tilde{f}(w) = \sup_{z \in Z} f(w, z) \geq f(w, z) \geq \inf_{w \in W} f(w, z) = \tilde{f}(z)$$

$$\Rightarrow \tilde{f}(w) \geq \tilde{f}(z) \Rightarrow \inf_{w \in W} \tilde{f}(w) \geq \sup_{z \in Z} \tilde{f}(z)$$

$$\Rightarrow \inf_{w \in W} \sup_{z \in Z} f(w, z) \geq \sup_{z \in Z} \inf_{w \in W} f(w, z)$$

اگر z, w آویزند هم: $-\infty \leq +\infty$