6. I'm going to define \mathbb{R}^+ as the set of positive real integers.

(a) ... $\forall x \in \mathbb{R}, \varepsilon \in \mathbb{R}^+, \exists \delta \in \mathbb{R}^+, (|x-a| < \delta) \implies (|f(x) - f(a)| < \varepsilon)$ (b) ... $\exists x \in \mathbb{R}, \varepsilon \in \mathbb{R}^+, \forall \delta \in \mathbb{R}^+, (|x-a| < \delta) \land (|f(x) - f(a)| > \varepsilon)$