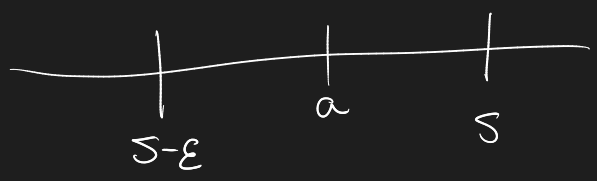


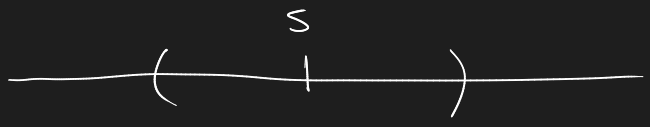
q.v.q.

$$\forall \varepsilon > 0,\ \exists a \in A \ / \ s - \varepsilon < a \leqslant s$$

(s: supremo)

Tenho

$$\forall \varepsilon > 0 \ , \ \exists n_0 \ / \ |a_n - s| < \varepsilon \qquad \forall n \geqslant n_0$$



como s é cota superior

$\Rightarrow$ 

$\therefore$ tenho

$$\forall \varepsilon > 0 \ , \ \exists n_0 \ / \ \underbrace{s - a_n}_{s \geqslant a_n} < \varepsilon \qquad \forall n \geqslant n_0$$

$$s - \varepsilon < a_n \leqslant s$$

$\therefore$ vale que

$$\forall \varepsilon > 0,\ \exists a_n \in A \ / \ s - \varepsilon < a_n \leqslant s \qquad \checkmark$$