



Qvq $\forall \varepsilon > 0, \exists a \in A \mid s - \varepsilon < a \leq s$ ← supremum

Tengo

$$\forall \varepsilon > 0, \exists n_0 \mid |a_n - s| < \varepsilon \quad \forall n \geq n_0$$



como s es cota superior



∴ tengo

$$\forall \varepsilon > 0, \exists n_0 \mid s - a_n < \varepsilon \quad \forall n \geq n_0$$

$s \geq a_n$
↓

$$s - \varepsilon < a_n \leq s$$

∴ vale que

$$\forall \varepsilon > 0, \exists a_n \in A \mid s - \varepsilon < a_n \leq s \quad \checkmark$$