

Q1) Fill in the blanks: For all  $a, b \in \mathbb{R}$  with  $a > 0, b > 0$ , there exists  $n \in \mathbb{N}$  s.t.

Q2) Fill in the blank: If  $S \subseteq \mathbb{R}$  is not bounded below, we write \_\_\_\_\_.

(A)  $a < b < n$

(B)  $an < b$

(C)  $an > b$

(D)  $bn < a$

(E)  $a < \frac{1}{n} < b$

(A)  $\sup(S) = -\infty$

(B)  $\inf(S) = -\infty$

(C)  $\min(S) = -\infty$

(D)  $\min(S)$  D.N.E.

(E)  $S \geq -\infty$