

SEQUENCES AND SERIES, EXAMPLES CLASS 4.

Supremum and infimum

Find supremum and infimum of the set A if:

$$(1) A = \left\{ 1 + \frac{1+(-1)^n}{n} : n \geq 1 \right\}$$

$$(2) A = \{x : x \in \mathbb{Q} \text{ and } x^2 < 2\}$$

$$(3) A = \left\{ \frac{3n^2}{1+2n^2} : n \geq 1 \right\}$$