20S-MATH61-2 Quiz 2

CHARLES ZHANG

TOTAL POINTS

10 / 10

QUESTION 1

1 Question 1 10 / 10

   ✓ **- 0 pts** Correct

   - **- 0 pts** Answered a different question.

   - **- 3 pts** Incorrect.

   - **- 2 pts** Incomplete/Incorrect answer

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$S_n = n^2 - 2^n$

$D = \{n \mid n \in \mathbb{N}, n \geq 2\}$

$n = 2 \rightarrow 4 - 4 = 0$ ⎤ → ~~decreasing~~, non-increasing
$n = 3 \rightarrow 9 - 8 = 1$ ⎤ → ~~increasing~~, non-decreasing
$n = 4 \rightarrow 16 - 16 = 0$ ⎦
$n = 5 \rightarrow 25 - 32 = -7$
⋮

$n = 1000 \rightarrow$ very negative

<u>decreases for $n > 3$</u>

<u>increases for $2 < n < 3$</u>

∴ This sequence isn't increasing, decreasing, non-increasing, or non-decreasing,

| None |

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