## Answer on Question \#75986 - Math - Discrete Mathematics Question

Write the sentence in logical notation, negate the sentence, and say whether the sentence or its negation is true.

Given any integer, there is a larger integer

## Solution

Logical notation:

$$
\forall x \in Z, \exists y \in Z \text { such that } y>x
$$

Negation:
For some integers there is no a smaller integer.

$$
\exists x \in Z \text { such that } \forall y \in Z, y<x
$$

Answer: the sentence is true, its negation is false.

