

Simple Concept Tough Problem - 5

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Hello readers ! We are at the fifth problem in the SCTP series. This problem had appeared in the PRMO 2018 paper. Here is the problem :

Integers a, b, c satisfy $a + b - c = 1$ and $a^2 + b^2 - c^2 = -1$. Find the sum of all possible values of $a^2 + b^2 + c^2$.

We will see that this problem requires a basic property of divisibility of integers. If a and b are integers such that a divides b and b divides a , then $a = b$. Please see the following video for the detailed solution.

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