Roll-1705045 Chapterr-1; Section-2 onsulf realist asses To be verified by 1705075

Question: = 109 sal- ton motions 1

31.
It is trelated to inhabitants of an island or which there are three kinds of people Knights who always tell the truth, knaves who always lie, and spies (called Normals by Smullyan [Sm78]) who can either lie note tell the truth. You encounter three people, A, B, C. You know one of these people are knight, one is knave, and one is a spy. Fach of the three people Knows the type of person each of situations, if possible, determine whether there is a unique solution and determine who a the knowe, known and spy

no unique are. When there is solution or colution, list all possible no solutions. state that there are

spy! B says, I A says "I am not the says," I am not an not the SPY: C the SPJ.

extit atout out that epochs who endpired Answer. -

There is no solution. Either A or B on c has to knave. Knave always lies. But here all of them say # "I am not the spy." A knave can never say "I am not the spy." So, it has not solution.

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