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Problem 1: Find all x,y∈ Z such that x3 −y2 = 1. Remark: This is a special case of a general problem known as " Catalan ' s conjecture " , which is that the only solution to $x^m - y^n = 1$

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The history of discrete mathematics has involved a number of challenging problems which have focused attention within areas of the field. In graph theory, much research was motivated by attempts to prove the four color theorem, first stated in 1852, but not proved until 1976 (by Kenneth Appel and Wolfgang Haken, using substantial computer assistance).

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As will become more clear, algebraic number theory deals with the algebraic aspects of these numbers, forgetting that they are real or complex numbers (or more precisely forgetting where they are located amongst other real or complex

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