Number Theory Homework #12

Prof. Zeev Rudnick

Not to be handed in!
we will discuss this on Monday, January 30, 2012.

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1. Find all integer solutions to Pell's equation $x^2 - d\,y^2 = 1$ for d = 7,10, 14, 26.

2. For d= 19, 29, 31, 61 decide if the "odd" Pell equation $x^2 - d\,y^2 = -1$ has a solution and find the fundamental solution of Pell's equation $x^2 - d\,y^2 = 1$.

Course homepage: http://www.math.tau.ac.il/~rudnick/courses/int_numth.html