

# THUE EQUATIONS

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## ABSTRACT

Let  $F(x, y)$  be an irreducible binary form with integral coefficients and degree  $n$  greater than 2, then by a well-known result of Thue, the equation  $F(x, y) = m$  ( $m$  an integer) has finitely many solutions in integers  $x$  and  $y$ . I shall discuss some methods from Diophantine analysis and geometry of numbers to obtain upper bounds upon the number of integral solutions to such equations. Then I will show some results on representation of integers by binary forms.