

Title: Power values of sums of binary forms

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In this note we obtain some finiteness results for the solutions of diophantine equations of the shape  $f(x, y) + g(x, y) = bz^m$ , where  $f, g \in \mathbb{Q}[x, y]$  are binary forms such that the roots of f(x, 1) and g(x, 1) form arithmetic progressions. Our theorems provide common generalizations of some results of GYŐRY, HAJDU and SARADHA [12], DARMON and GRANVILLE [10], YUAN [26] and BILU, KULKARNI and SURY [6].

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