

“POINTS RATIONNELS, COURBES RATIONNELLES ET COURBES ENTIÈRES SUR LES VARIÉTÉS ALGÈBRIQUES”

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RATIONAL POINTS, RATIONAL CURVES AND ENTIRE HOLOMORPHIC CURVES ON ALGEBRAIC VARIETIES

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The theorems of Thue, Siegel, and Roth

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Thue’s theorem involves the finiteness of integer solutions to a specific equation in two variables. This was generalized by Siegel to a statement about finiteness of integral points on curves of genus at least one. Roth’s theorem, on the other hand, is a statement about rational approximations to algebraic irrational numbers. We will discuss proofs of all three of these theorems, how they are related, and, time permitting, more recent developments.

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