

prime test

2003 Japanese mathematicians this problem is a P-problem

SQRT

factorisation

RSA

$ax+b=0$ (always)
 $ax^2+bx+c=0$ (1000 let ago)
 $ax^3+bx^2+cx+d=0$ (500 let ago)
 $ax^4+bx^3+cx^2+dx+e=0$ (450 let ago)
 300 years investigate
 Evarist Galua - 200 let ago

reserve
elliptic curves

RSA 1970 MIT
5 math

P-problems

polinomial complexity

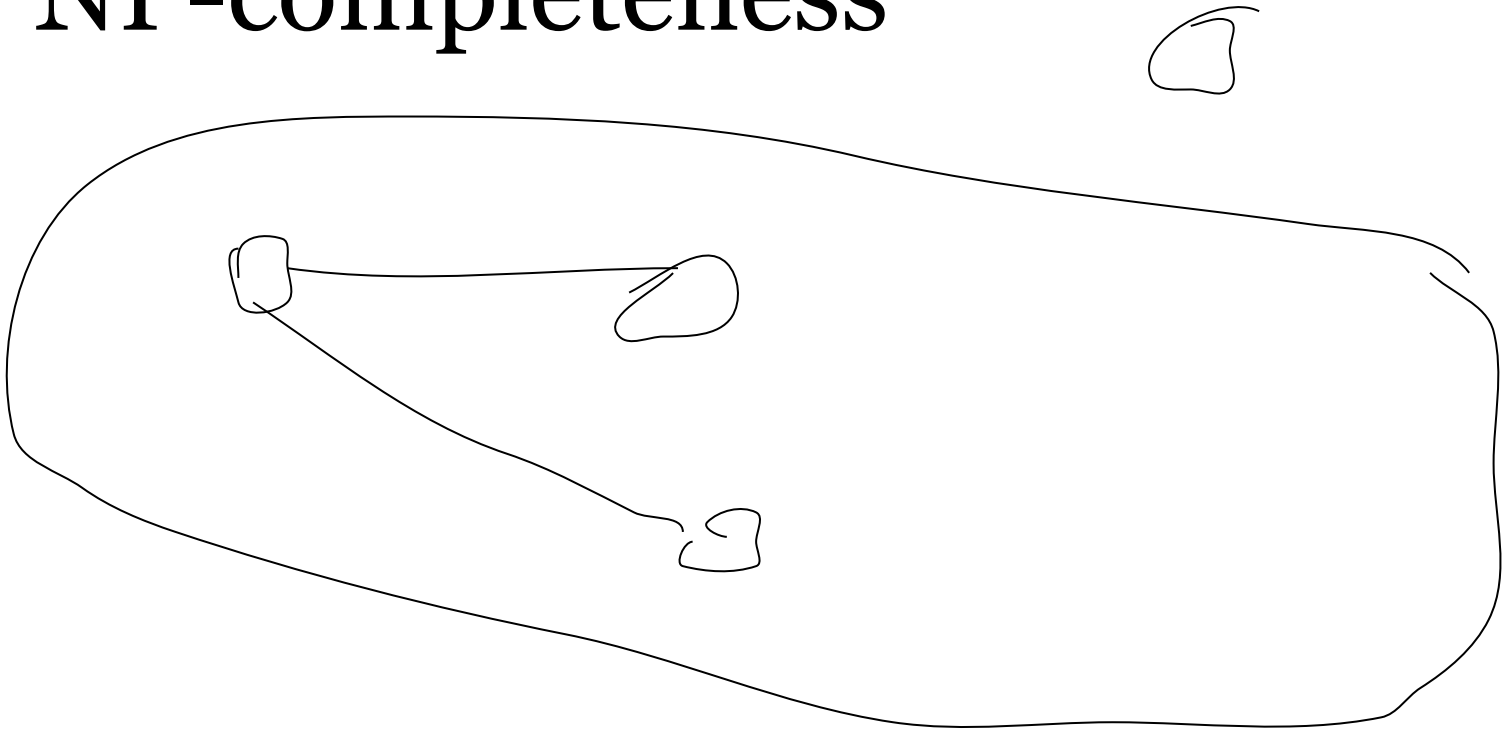
$y=3x^2+x-1$
 $y=3x-1$
 $y=3x^3-x+7$
 $y=x^{107}$

NP-problems

exponential complexity

$y=2^x$

Mihail Levin 1970
NP-completeness



$\lim x^k / a^x \rightarrow 0$