Elementary Number Theory

& ITS APPLICATIONS 7th

$f_1 = 1, f_2 = 1, f_n = f_{n-1} + f_{n-2}$ for $n \geq 3$

$$T(n) = \begin{cases} n/2 & \text{if } n \text{ is even,} \\ (3n+1)/2 & \text{if } n \text{ is odd.} \end{cases}$$

$ma + nb = (a, b)$

$P_1 + P_2 = (m^2 - x_1 - x_2, m(x_1 - x_2) - y_1)$

$P + \infty = P$

$E(P) = C \equiv P^e \pmod{n}, \quad 0 \leq C < n$

$y^2 = x^3 + ax + b$

$S \equiv D_{k(n)}(M) \equiv M^{d_{k(n)}} \pmod{n_{k(n)}}$

$\left(\frac{p}{q}\right)\left(\frac{q}{p}\right) = (-1)^{\frac{p-1}{2} \cdot \frac{q-1}{2}}$

$\sqrt{d^2 + 1} = [d; 2d]$

$\prod_{i=1}^{\infty}(1 - x^i) = \sum_{n=-\infty}^{\infty}(-1)^n x^{n(3n-1)/2} = 1 + \sum_{n=1}^{\infty}(-1)^n x^{n(3n-1)/2}(1 + x^n)$

$x \equiv 3C + \lfloor 7/4 \rfloor + \lfloor 7/4 \rfloor - 3 \pmod 7$

$p(200) = 3,972,999,029,388$

$x \equiv a_1 M_1 y_1 + a_2 M_2 y_2 + \cdots + a_r M_r y_r$

$\sum c_i r_i \equiv 0 \pmod{11}$

$p(11k + 6) \equiv 0 \pmod{11}$

$\max(|a|, |b|, |c|) < K(\epsilon)(\text{rad}(abc))^{1+\epsilon}$

$Q_n = p_1 p_2 \cdots p_n + 1$

$x^2 - dy^2 = 1$

$\phi(n) = n\left(1 - \frac{1}{p_1}\right)\left(1 - \frac{1}{p_2}\right)\cdots\left(1 - \frac{1}{p_k}\right)$

$2^{82,589,933} - 1$

$x^n + y^n = z^n$

$p_n \sim n \log n$

$a^{\phi(m)} \equiv 1 \pmod m$

$2996863034895 \cdot 2^{1,290,000} \pm 1$

$x^n - y^n = z^n$

$a^{p-1} \equiv 1 \pmod p$

$F_n = 2^{2^n} + 1$

$x^4 + y^4 = z^4$

$(p-1)! \equiv -1 \pmod p$

Kenneth H. Rosen

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