

$$\begin{array}{l}x^2+y^2+z^2=3xyz,\\(1,F_{2n-1},F_{2n+1}),\\(2,P_{2n-1},P_{2n+1}),\\m_n=\frac{1}{3}e^{C\sqrt{n}+o(1)}\quad\text{with }C=2.3523414972\dots\\x^2+y^2+z^2=3xyz+4/9\\f(x)+f(y)=f(z)\\L_n=\sqrt{9-\frac{4}{m_n^2}}.\\f(x,y)=ax^2+ bxy+cy^2\\D=b^2-4ac\\\frac{\sqrt{D}}{3}\\px^2+(3p-2a)xy+(b-3a)y^2\\\equiv \pm r \pmod{p}, bp-a^2=1,\end{array}$$