$x^2 + y^2 + z^2 = 3xyz,$
$(1, F_{2n-1}, F_{2n+1}),$
$(2, P_{2n-1}, P_{2n+1}),$
$m_n = \frac{1}{3}e^{C\sqrt{n}+o(1)}$ with $C = 2.3523414972\ldots.$
$x^2 + y^2 + z^2 = 3xyz + 4/9$
$f(x) + f(y) = f(z)$
$L_n = \sqrt{9 - \frac{4}{{m_n}^2}}.$
$f(x, y) = ax^2 + bxy + cy^2$
$D = b^2 - 4ac$
$\frac{\sqrt{D}}{3}$
$px^2 + (3p - 2a)xy + (b - 3a)y^2$