Basic

$$Cn = (-n^2, 0): y^2 = x^3 - n^2*x.; also En.$$
 $pqrs(p, q, r, s): n = pq = rs, s = p + q + r.$
 $xyw(x, y, w): n^2 = x*w, w = x + y^2.$
 $gnp(g, n, p): g^2 = n^2 - p^4.$

Relations

1 $pqrs -> xyw(pr, q+r, qs), xyw(qr, p+r, ps).$

1 $pqrs -> 1$ Triangle $(p+r, q+r, p+q).$

1 $xyw -> 2$ Cn points. $P(-x, xy), P(w, wy).$

1 $xyw(x, y, w) -> 1$ Triangle $(y, 2n/y, h);$
 $h: h^2 = y^2 + (2n/y)^2.$

Cn Point equivalence:

 $P(-a, b) -> P(n^2/a, n^2*b/a^2)$
 $P(+c, d) -> P(-n^2/c, n^2*d/c^2)$

1 $pqrs -> 4$ points curve $Cn:$
 $P(-pr, pr(q+r)), P(ps, ps*(p+r)).$

1 $pqrs -> 1$ triad squares: $(q-p, p+q, r+s)$
 $g^2 = n^2 - p^4.$

GNP Triangle Q sides $(g/p, 2np/g, (g^2 + 2p^4)/pg)$.

 $GNP -> xyw form(p^2, g/p, (n/p)^2).$

GNP Point $(-p^2, pg)$.