



$$\begin{cases} x_0 x_1 + x_2 x_3 = -4a + p \\ x_0 x_1 x_2 x_3 = \alpha^2 + \beta^2 + \gamma^2 - 2(\beta\gamma^2 - \alpha) + 4\alpha\beta\gamma \end{cases}$$

$$+ 2(\alpha + \beta + \gamma) - 4(\beta\gamma^2 - \alpha) = -4[\alpha + \beta + \gamma + 3\alpha\beta\gamma] + 3p$$

$$\frac{3p}{2} = 3\alpha\beta\gamma + a + b + c \quad (1-x)(1-y) = R^2 \quad \lambda = 0$$

$$p = 2\alpha\beta\gamma + \frac{2}{3}(a+b+c)$$

~~B =~~

$$R = \frac{hp}{L}$$

~~-4A~~  $p \neq 0$   $\omega = 90^\circ$

$$Q + \sqrt{-U} = p + b - 2c$$

$$b = c$$

$$\frac{3}{4}z^2 = 16A + \frac{2}{3}(3c^2 - 8c\alpha)$$

$$3z^2 = 16A + 3\alpha\beta\gamma + \frac{4}{9} \left[ 4(\alpha + \beta + \gamma) + \frac{2}{3}(\beta\gamma^2 - \alpha) \right]$$

$$\alpha^2(1-\gamma)(1-\gamma')$$

$$\beta^2(1-\gamma) = \gamma^2(1-\beta)$$

$$\beta = \gamma$$

$$x_0 = \alpha\beta\gamma + \frac{1}{3}(\beta_1 + \beta_2 + \beta_3)$$

$$3z^2 = 16A + \frac{4}{9} \left[ 4(\alpha + \beta + \gamma) - 8(\beta\gamma^2 - \alpha) \right] \quad 3 \cdot \frac{5}{9}$$

$$3z^2 = 16A + \frac{5}{3}\alpha\beta\gamma + \frac{4}{9} \left[ a + b + c - 6\alpha\beta\gamma \right]$$

$$3z^2 = 16(b+c-2a) + \frac{5}{3}\alpha\beta\gamma + \frac{4}{9}(b+c) + \frac{4}{9}a$$

$$\Phi(\sigma) = \sigma^4 + 4\alpha\beta\gamma\sigma^3 + \frac{16}{9}\sigma^2 - \frac{4}{9}\sigma - \frac{16}{9}$$

$$\Phi(\sigma) = 0$$

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$$(x_0 + x_1 - x_2 - x_3)^2 = (x_0 + x_1 + x_2 + x_3)^2 - 4(x_0x_2 + x_2x_3 + x_3x_1) - 4(x_0x_3 + x_1x_2)$$

$$\alpha_1 - \alpha_2 - \alpha_3 + \alpha_4$$

$$= \alpha^2 - 4 \left[ -4(b+c) + \frac{4}{3}a + \frac{4}{3}(b+c) \right]$$

$$= -15\alpha\beta\gamma + \frac{16}{3} \left[ 2(b+c) - \frac{1}{3}a - \frac{2}{3}(b+c) \right]$$

$$= -15\alpha\beta\gamma + \frac{16}{3} \left[ 2(a+b+c) - 3a \right] = \frac{16}{3}a + \frac{32}{3} \left[ \alpha^2 + \beta^2 + \gamma^2 - 2(\beta\gamma^2 - \alpha) + 3\alpha\beta\gamma \right] + \frac{16}{3}a$$

$$(x_0 + x_1 - x_2 - x_3)^2 = -\frac{16}{3}a + \frac{16}{3}\alpha(\beta + \gamma) + \alpha\beta\gamma + \frac{32}{3}[\beta + \gamma - 2\beta\gamma] - 16\alpha^2 + 16\alpha(\beta + \gamma) + \alpha\beta\gamma^2$$