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Polynomials

Current note has 17 direct children and 18 total descendants.

- [squishy](#)
 - [Polynomials](#)
 - $X^n + Y^n = Z^n$
 - $8X^3 + 4X^2 - 4X - 1$
 - $x^2 + y^2 - 3$
 - [Folium of Descartes](#)
$$X^3 + Y^3 - 3aXY$$
 - $X^3 + Y^3 - a$
 - $3X^3 + 10X^2 + 3 - Y^2$
 - $3X^8 + 10X^4 + 3 - Y^2$
 - $XYZ - 1$
 - [Pythagorean triples](#)
 - [Bolza curve](#)
 - [Hyperelliptic integrals and holomorphic forms on \$S\(Y^2 - X^5 + X\)\$](#)
 - [Irreducible polynomials in \$\mathbb{C}\[x, y\]\$](#)
 - [Polynomial maps \$\mathbb{C}^n \rightarrow \mathbb{C}^n\$ of degree at most \$d\$](#)
 - [Chebyshev polynomials of the first kind](#)
 - [Logistic map](#)
 - [Dynamics of the map \$z^2 + c\$](#)
 - $\begin{pmatrix} x \\ y \\ y \end{pmatrix} \mapsto \begin{pmatrix} (1 + xy)^3 z + y^2(1 + xy)(4 + 3xy) \\ y + 3x(1 + xy)^2 z + 3xy^2(4 + 3xy) \\ 2x - 3x^2 y - x^3 z \end{pmatrix}$
 - $(w^2 - 1)^2$

And it has 30 siblings.

- [squishy](#)
 - $SL(2)(\mathbb{R}) \curvearrowright \mathbb{R}^2$
 - $SL(2)(\mathbb{R}) \curvearrowright H^2_{\mathbb{U}}$
 - $\text{Mat}_{\mathbb{C}}(2)$
 - $A_{r,-\langle z \mapsto \lambda z \rangle} \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{C} \setminus \{0\}_{,-\langle z \mapsto z + 1 \rangle} \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{C} \setminus \{0, 1\}_{,-PSL(2)(\mathbb{Z})[2]} \backslash \mathbb{R}H^2_{\mathbb{U}}$
 - $\mathbb{R} \ltimes_{\theta} \mathbb{C}^2$
 - $\boldsymbol{CI}(\mathbb{R}^n, \langle \ , \ \rangle_{0,n})$
 - $\mathbb{C}^n$
 - $U(\mathbb{C} \setminus \{0\})$
 - $PSL(2)(\mathbb{C}) \curvearrowright \mathbb{C}P^1 \cong_{\text{Man}} S^2$
 - $\mathbb{C}P^n$
 - [Farey graph, complex and tree](#)
 - GL
 - [Heisenberg group](#)
 - [Incomplete hyperbolic polygon mod side-pairing](#)
 - $\mathbb{R}H^2, \mathbb{R}H^2_{\mathbb{U}}, D^2$
 - $\mathbb{R}H^n$
 - [D_n lattice](#)
 - [Matrices](#)
 - $\text{Mat}_{\mathbb{R}}(2)$
 - [Möbius endomorphisms](#)
 - [Elementary group with finite and infinite sided Dirichlet polyhedra](#)
 - [Polynomials](#)
 - $T^*S^1 \not\cong_{\text{Sym}} (\mathbb{R}^2 \setminus \{0\}, dx \wedge dy)$
 - $Z\left(\sum_{1 \leq j \leq n} z_j^2 - 1\right)(\mathbb{C}) \cong_{\text{Sym}} T^*S^{n-1}$
 - SL
 - SO
 - [Seifert–Weber dodecahedral 3-manifold](#)
 - $U(n, \mathbb{C})$