

$$G(q) = 1 - 3 \frac{q(q-2)^2}{(q-1)^3}$$

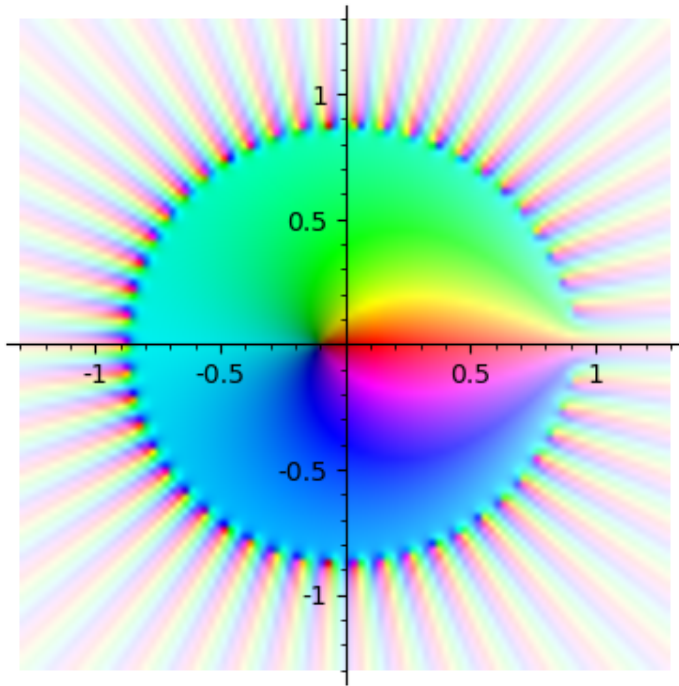
$$G(q) = + \dots 228q^{10} + 192q^9 + 159q^8 + 129q^7 + 102q^6 + 78q^5 + 57q^4 + 39q^3 + 24q^2 + 12q + 1$$

var("q")

$$G(q)=1-3*(q*(q-2)^2)/((q-1)^3)$$

(G(q).taylor(q,0,50))

$$\begin{aligned} & \#4128*q^50 + 3972*q^49 + 3819*q^48 + 3669*q^47 + 3522*q^46 + 3378*q^45 + 3237*q^44 \\ & + 3099*q^43 + 2964*q^42 + 2832*q^41 + 2703*q^40 + 2577*q^39 + 2454*q^38 + 2334*q^37 \\ & + 2217*q^36 + 2103*q^35 + 1992*q^34 + 1884*q^33 + 1779*q^32 + 1677*q^31 + 1578*q^30 \\ & + 1482*q^29 + 1389*q^28 + 1299*q^27 + 1212*q^26 + 1128*q^25 + 1047*q^24 + 969*q^23 \\ & + 894*q^22 + 822*q^21 + 753*q^20 + 687*q^19 + 624*q^18 + 564*q^17 + 507*q^16 + \\ & 453*q^15 + 402*q^14 + 354*q^13 + 309*q^12 + 267*q^11 + 228*q^10 + 192*q^9 + 159*q^8 \\ & + 129*q^7 + 102*q^6 + 78*q^5 + 57*q^4 + 39*q^3 + 24*q^2 + 12*q + 1 \end{aligned}$$



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