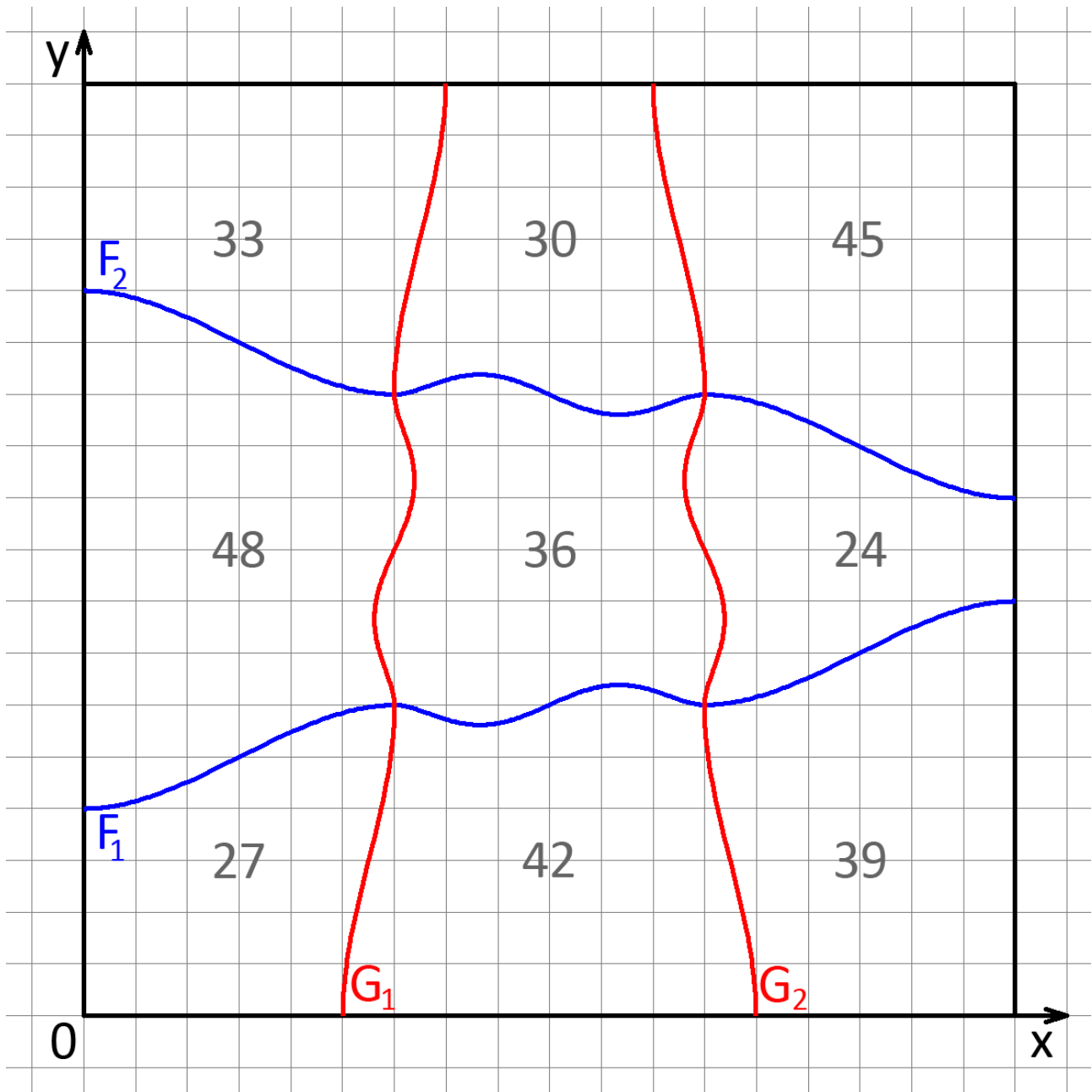


Curved Area Magic Square of order 3

Walter Trump, 2017-02-01



Functions

$$f_1(x) = \begin{cases} h(54, 3, 5, x) & \text{if } 0 \leq x < 6 \\ j(x) & \text{if } 6 \leq x < 12 \\ h(54, 15, 7, x) & \text{if } 12 \leq x \leq 18 \end{cases}$$

$$g_1(y) = \begin{cases} h(108, 3, 5.5, y) & \text{if } 0 \leq y < 6 \\ j(y) & \text{if } 6 \leq y < 12 \\ h(108, 15, 6.5, y) & \text{if } 12 \leq y \leq 18 \end{cases}$$

$$f_2(x) = 9 - f_1(x)$$

$$g_2(y) = 9 - g_1(y)$$

with $h(a, x_0, y_0, x) = \frac{1}{a}(x - x_0)((x - x_0) - 27) + y_0$

and $j(x) = \frac{1}{180}(9 - x)((9 - x)^2 - 9)^2 + 6$