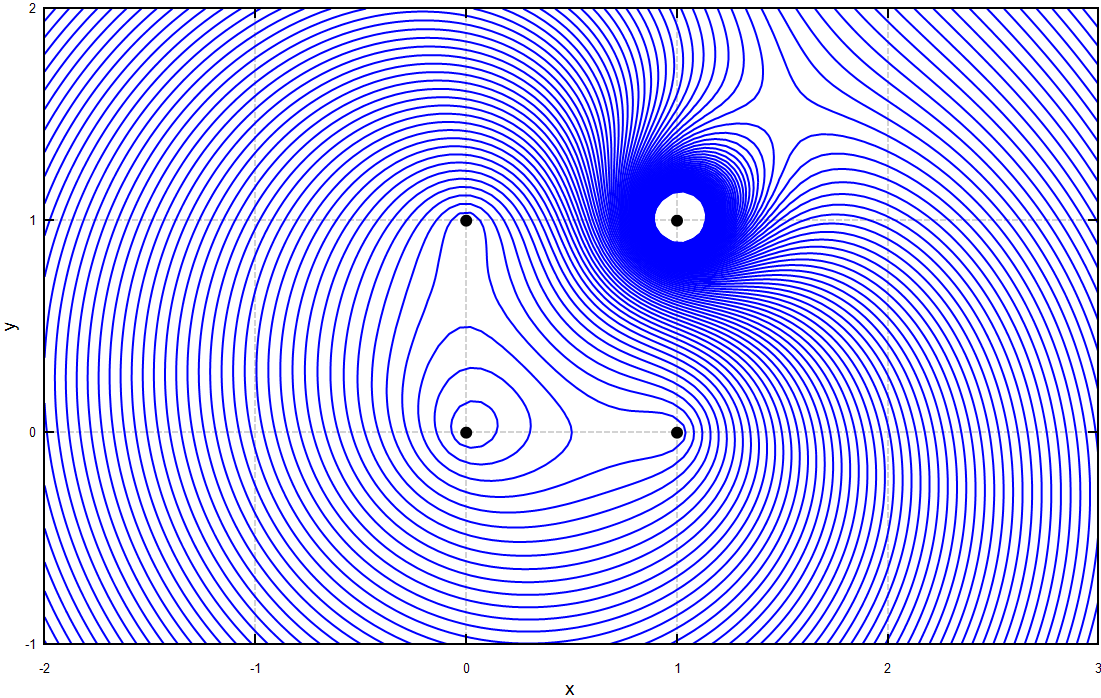


Расчет из книги "IT в инженерных расчетах: SMath" Лань 2023
Рис. Д6. Четырехфокусная арифметическая кривая a+b c/d

$$X_F := \begin{bmatrix} 0 \\ 0 \\ 1 \\ 1 \end{bmatrix} \quad Y_F := \begin{bmatrix} 0 \\ 1 \\ 0 \\ 1 \end{bmatrix}$$
$$\left\{ \begin{array}{l} S := [0.1, 0.2 \dots 10] \\ Plot := \{1 \\ \text{for } k \in [1..(6 \cdot \text{length}(S))] \\ \quad Plot_k := "" \\ \text{for } k \in [1..\text{length}(S)] \\ \quad Plot_{6 \cdot k} := F4(x, y, S_k) \end{array} \right.$$

$$F4(x, y, S) := \left\{ \begin{array}{l} L_a := \sqrt{\left(x - X_{F_1}\right)^2 + \left(y - Y_{F_1}\right)^2} \\ L_b := \sqrt{\left(x - X_{F_2}\right)^2 + \left(y - Y_{F_2}\right)^2} \\ L_c := \sqrt{\left(x - X_{F_3}\right)^2 + \left(y - Y_{F_3}\right)^2} \\ L_d := \sqrt{\left(x - X_{F_4}\right)^2 + \left(y - Y_{F_4}\right)^2} \\ S - \left(L_a + L_b \cdot \frac{L_c}{L_d} \right) \end{array} \right.$$



$$\left\{ \begin{array}{l} \text{augment}(X_F, Y_F, ".", 5, \text{"Black"}) \\ Plot \end{array} \right.$$