

Quantum Monotone Local Search.

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Introduction. bla bla bla

$$\begin{aligned}c &= 8 \\f(x) &= (2 - (1/c))^x \\g(x) &= (2 - (1/c)^2)^{(x/2)}\end{aligned}$$

The second derivative of f is

$$\frac{d^2}{dx^2} \left(\frac{15}{8} \right)^x = \left(\frac{15}{8} \right)^x \log \left(\frac{15}{8} \right)^2.$$

Here's a plot of f from -1 to 1 :

