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$$f(x) = (x_1 - x_n)^{\frac{1}{n}} \stackrel{\text{def}}{=} x_n)^{\frac{1}{n}} \stackrel{\text{def}}{=} x_n)^{\frac{1}{n}}$$

$$\frac{1}{\sqrt{f(x)}} = (x_1 - x_n)^{\frac{1}{n}} \stackrel{\text{def}}{=} x_n)^{\frac{1}{n}} \frac{1}{\sqrt{x_n}} \frac{1}$$