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The second
derivative of
 $f(x)$, for $x = 0$,
is given by f
 $(x) = 2\sqrt{2 - 2\cos(2\sqrt{3\ln x})} + 4\sqrt{3\ln x}$
 $3\sin(2\sqrt{3\ln x})$.

Thus: $f'(x_k) = 2\sqrt{2 - 2\cos(2\sqrt{3\ln x_k})} + 4\sqrt{3\ln x_k}$

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$$\begin{aligned} & 2 - 2\cos \frac{\pi}{4} + 4\sqrt{3}\sin \frac{\pi}{4} = 2\sqrt{2} - 2\sqrt{2} + 4\sqrt{3} \\ & \sqrt{2} - \sqrt{2} = 4\sqrt{6}. \end{aligned}$$

Similarly $f(x_k) = 2\sqrt{2} - 2\cos(-\frac{\pi}{4}) + 4\sqrt{3}\sin(-\frac{\pi}{4}) = 2\sqrt{2} - 2\sqrt{2} - 4\sqrt{3} = -4\sqrt{6}$. Hence, $\{x_k \mid k \geq 0\}$ is a sequence of nonsingular local minima,

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which evidently
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