

-6.4
(1.33)

$$\begin{aligned}
 & \lim_{h \rightarrow 0} \frac{\sqrt{\sin(x+h)} - \sqrt{\sin x}}{h} \cdot \frac{\sqrt{\sin(x+h)} + \sqrt{\sin x}}{\sqrt{\sin(x+h)} + \sqrt{\sin x}} = \lim_{h \rightarrow 0} \frac{\sin(x+h) - \sin x}{h(\sqrt{\sin(x+h)} + \sqrt{\sin x})} \\
 & = \lim_{h \rightarrow 0} \frac{-2 \sin \frac{h}{2} \cos(x + \frac{h}{2})}{h(\sqrt{\sin(x+h)} + \sqrt{\sin x})} = \lim_{h \rightarrow 0} \frac{\sin \frac{h}{2}}{\frac{h}{2}} \cdot \frac{\cos(x + \frac{h}{2})}{\sqrt{\sin(x+h)} + \sqrt{\sin x}} = \\
 & = \lim_{h \rightarrow 0} \frac{\cos x}{\sqrt{\sin x} + \sqrt{\sin x}} = - \frac{\cos x}{2 \sqrt{\sin x}} \neq \frac{\cos x}{2 \sqrt{\sin x}}
 \end{aligned}$$

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