

$$\begin{aligned}
 \mathbf{14.} \quad \lim_{h \rightarrow 0} \frac{h}{\sqrt{x+3h} - \sqrt{x}} &= \lim_{h \rightarrow 0} \frac{h(\sqrt{x+3h} + \sqrt{x})}{(x+3h) - x} \\
 &= \lim_{h \rightarrow 0} \frac{\sqrt{x+3h} + \sqrt{x}}{3} = \frac{2\sqrt{x}}{3}
 \end{aligned}$$