

1. Find $\lim_{h \rightarrow 0} \frac{\sqrt{2+h} - \sqrt{2}}{h}$.

2. Write the equation of the line tangent to the graph of $f(x) = \sqrt{x}$ at the point $(2, \sqrt{2})$.

3. Is the function $f(x) = |x - 1| - 1$, differentiable at either $x = 1$ or $x = 2$? Justify by considering limits.