

L'Hôpital Rule Assignment

1. LIM $\frac{\sqrt{x+1} - 1}{x}$
 $x \rightarrow 0$

2. LIM $\frac{1 - \cos x}{x + x^2}$
 $x \rightarrow 0$

3. LIM $\frac{\sqrt{1+x} - 1 - \frac{x}{2}}{x^2}$
 $x \rightarrow 0$

4. LIM $\frac{\ln x}{2\sqrt{x}}$
 $x \rightarrow \infty$

5. LIM $\left(\frac{1}{x} - \frac{1}{e^x - 1} \right)$
 $x \rightarrow 0$