

Calculus I Limits Worksheet

Evaluate the following limits. Show all your work.

1. $\lim_{t \rightarrow 0} \frac{\sqrt{t+4} - 2}{t} =$ _____

2. $\lim_{z \rightarrow 8} \frac{z^{2/3}}{z - \sqrt{2z}} =$ _____

3. $\lim_{x \rightarrow 0} \frac{1}{x} \sin \frac{x}{3} =$ _____

4. $\lim_{x \rightarrow 0} x \sec x \csc x =$ _____

5. $\lim_{x \rightarrow 1} \sqrt{x-1} =$ _____ (Be careful!)

6. $\lim_{x \rightarrow 2^-} \frac{2-x}{|x-2|} =$ _____