

Trig Limits Worksheet

Name _____

1. $\lim_{x \rightarrow 0} \frac{\sin x}{5x}$

7. $\lim_{x \rightarrow 0} \frac{(1 - \cos x)^2}{x}$

2. $\lim_{x \rightarrow 0} \frac{3(1 - \cos x)}{x}$

8. $\lim_{x \rightarrow \pi} x \sec x$

3. $\lim_{x \rightarrow 0} \frac{\sec(x) - 1}{x \sec x}$

9. $\lim_{x \rightarrow \pi/4} \frac{1 - \tan x}{\sin x - \cos x}$

4. $\lim_{x \rightarrow 0} \frac{\cos x \tan x}{x}$

10. $\lim_{x \rightarrow 0} \frac{\sin 2x}{\sin 3x}$

5. $\lim_{x \rightarrow 0} \frac{\sin x(1 - \cos x)}{2x^2}$

11. $\lim_{x \rightarrow 0} \frac{\sin^2 x}{x^2}$

6. $\lim_{x \rightarrow 0} \frac{\tan^2 x}{x}$

12. $\lim_{x \rightarrow 0} 1 + \cos 2x$

13. $\lim_{x \rightarrow 0} \frac{\sin x}{\sqrt[3]{x}}$