

Practice - 1

Once you feel confident with trigonometric limits, complete problem 1. Check your answers by going to the Solutions tab in Moodle.

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

- 1. Evaluate the following limits.
 - a. $\lim_{x \to 0} \frac{\sin \frac{1}{2}x}{x}$
 - b. $\lim_{\theta \to 0} \frac{\sin 3\theta}{\sin 5\theta}$
 - c. $\lim_{x\to 0} x \csc x$
 - d. $\lim_{\theta \to 0} \frac{\tan 2\theta}{3\theta}$