Quiz 11 Due: 14 November 2024

Answer the questions in the spaces provided. Show all of your work and circle the answer you would like to have graded for each question.

Name:

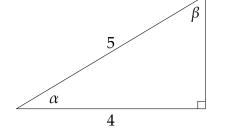
1. Find the exact value of $\sec(\frac{3\pi}{8})$ by hand.

2. Verify that
$$\frac{2\cos(2x)}{\sin(2x)} = \cot(x) - \tan(x)$$
.

3. Suppose that $\csc(x) = -5$ and $\pi < x < \frac{3\pi}{2}$. Compute $\sin(\frac{x}{2})$ by hand.

4. Use the figure to compute each of the following: (*You do not need to simplify your answers.*)

a.)
$$\tan\left(\frac{\alpha}{2}\right);$$



b.) $\cos(2\beta);$

c.) $sin(4\alpha)$.