1. Find the amplitude and the period of the trigonometric function graphed below.

$$\text{Period} = \underline{\phantom{00}}, \text{ amplitude} = \underline{\phantom{00}}$$

2. Make an educated guess as to what this function is.

3. Use the trigonometric substitution $u = 5 \sin \theta$ to write the algebraic expression $\sqrt{25-u^2}$ as a trigonometric function of $\theta$.

4. “Simplify” $\frac{\cot \theta}{\csc \theta}$ by rewriting each trigonometric function in terms of sine and cosine.