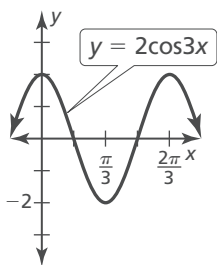Name _____ Date _____

In Exercises 1–4, graph one period of the function. Describe the graph of *g* as a transformation of the graph of its parent function.

1. $g(x) = 4 \tan x$

2. $g(x) = 3 \cot x$

3. $g(x) = \tan 2x$

4. $g(x) = \cot 4x$

5. Describe and correct the error in finding the period of the function
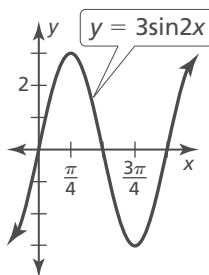 $f(x) = \tan 2\pi x$.

$$\bcancel{\quad} \text{Period: } \frac{\pi}{|b|} = \frac{\pi}{|2|} = \frac{\pi}{2}$$

6. Use the given graph to graph each function.

   a. $f(x) = 2 \sec 3x$

   b. $f(x) = 3 \csc 2x$

In Exercises 7–10, graph one period of the function. Describe the graph of *g* as a transformation of the graph of its parent function.

7. $g(x) = 4 \csc x$

8. $g(x) = \sec 2x$

9. $g(x) = \frac{1}{3} \sec 2\pi x$

10. $g(x) = 4 \csc \pi x$