



## 7-5 Additional Practice

### Graphing Other Trigonometric Functions

Sketch the graph over the region  $-2\pi$  to  $2\pi$ . Describe the domain, range, period, zeros and asymptotes of the function.

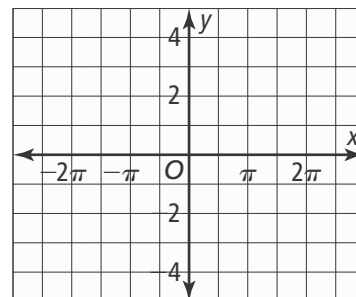
1.  $y = \tan x$

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

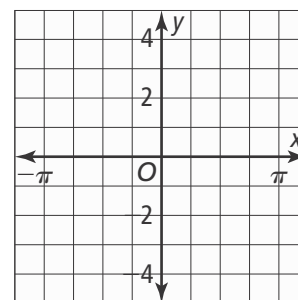
Period: \_\_\_\_\_

Asymptotes: \_\_\_\_\_

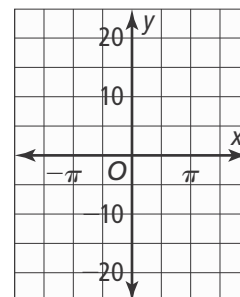


For Items 2 and 3, sketch the graphs of the functions. Then describe how the graph of each function compares to the graph of the parent function.

2.  $y = \frac{1}{4} \tan 4x$



3.  $y = 2 \cot 0.25x$



4. Benjamin is observing a hotel's entrance from a bench 30 ft away.

a. Write a function to model the height  $h$  of the hotel as a function of the angle of inclination  $x$  from his position to the entrance of the hotel.

b. Identify an appropriate domain.

5. Write a csc function that has a period of  $\frac{\pi}{4}$ .

6. Graph the function  $y = \sec x$ . Describe how the graph of  $y = \sec x$  is related to the graph of  $y = \cos x$ .

