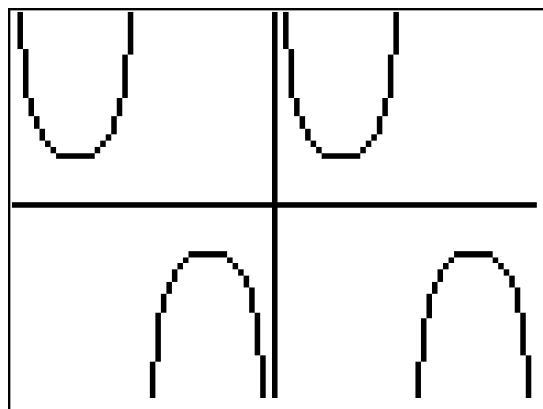
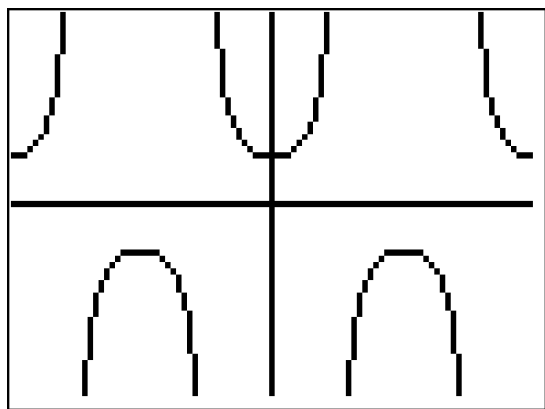


Label graphs (as  $\sec(x)$  or  $\csc(x)$ ), then label the x-axis and y-axis



Label the axes for each of the graphs below (Draw in a new x- or y-axis if necessary.)

1)  $y = 4\sec(2x)$

Amplitude = \_\_\_\_\_

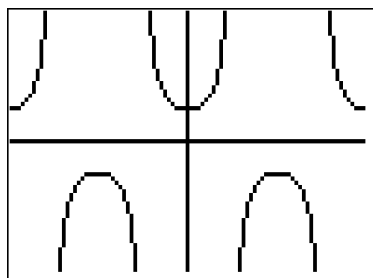
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



2)  $y = 3\sec(\pi x)$

Amplitude = \_\_\_\_\_

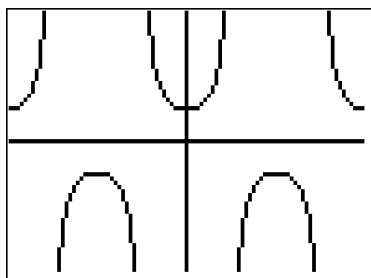
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



3)  $y = 5\csc\left(\frac{\pi x}{4}\right)$

Amplitude = \_\_\_\_\_

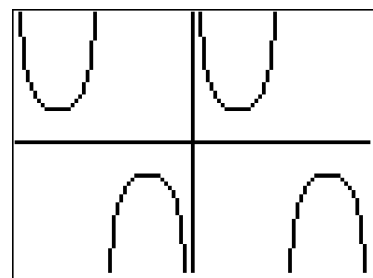
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



4)  $y = 3 + \sec(x)$

Amplitude = \_\_\_\_\_

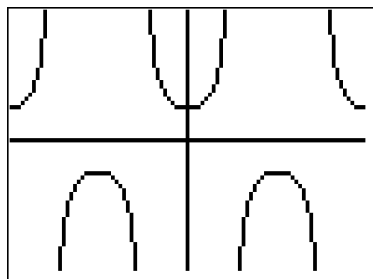
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



5)  $y = \csc(x) - 2$

Amplitude = \_\_\_\_\_

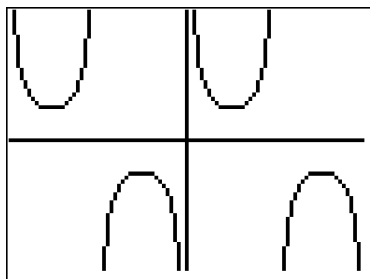
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



6)  $y = \csc(x) + 4$

Amplitude = \_\_\_\_\_

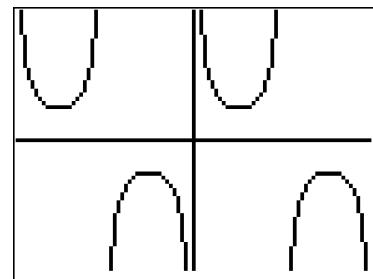
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



7)  $y = \csc\left(x - \frac{\pi}{4}\right)$

Amplitude = \_\_\_\_\_

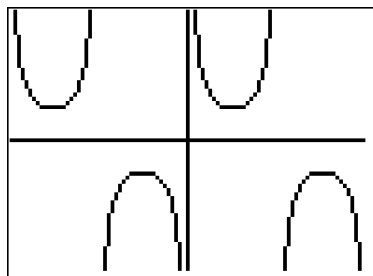
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



8)  $y = \sec\left(x + \frac{\pi}{2}\right)$

Amplitude = \_\_\_\_\_

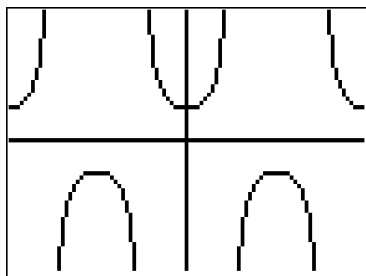
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



9)  $y = \csc(4\pi x - \pi)$

Amplitude = \_\_\_\_\_

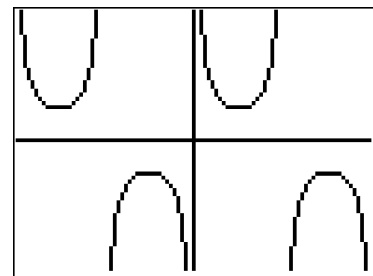
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



10)  $y = -2\sec\left(2x + \frac{\pi}{2}\right) - 3$

Amplitude = \_\_\_\_\_

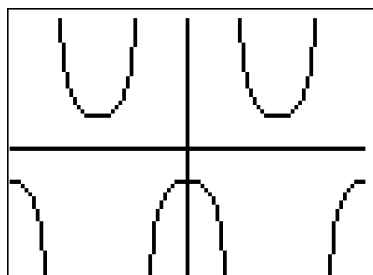
Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_



11)  $y = 3\csc\left(\frac{\pi x}{4} - \pi\right) + 2$

Amplitude = \_\_\_\_\_

Vertical Shift = \_\_\_\_\_

New Range:

$$y \leq \text{____}, \text{____} \leq y$$

Period = \_\_\_\_\_

Horizontal Shift = \_\_\_\_\_

