

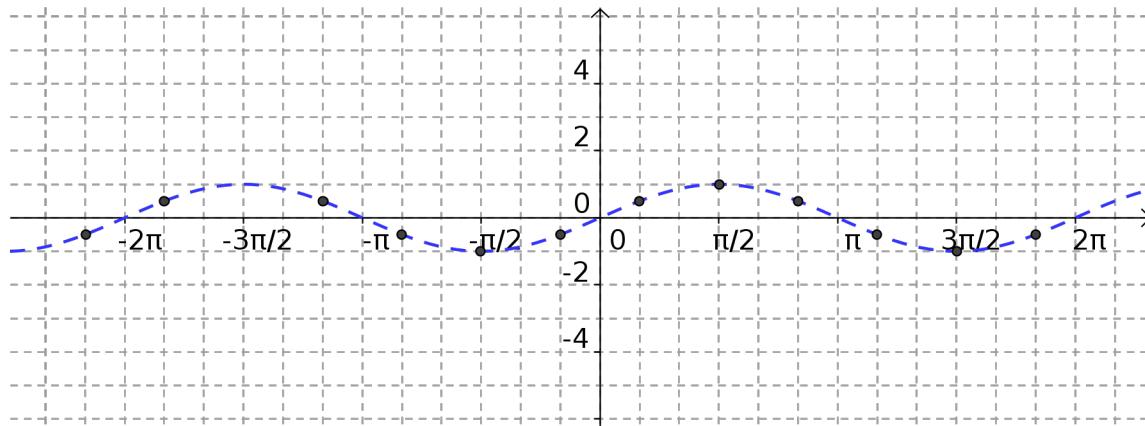
Recall: $\csc \theta = \frac{1}{\sin \theta}$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

A. Cosecant

Use the provided graph of $y = \sin \theta$ to graph $y = \csc \theta$. Be sure to indicate all vertical asymptotes use the indicated points to determine other y-values for the reciprocal.



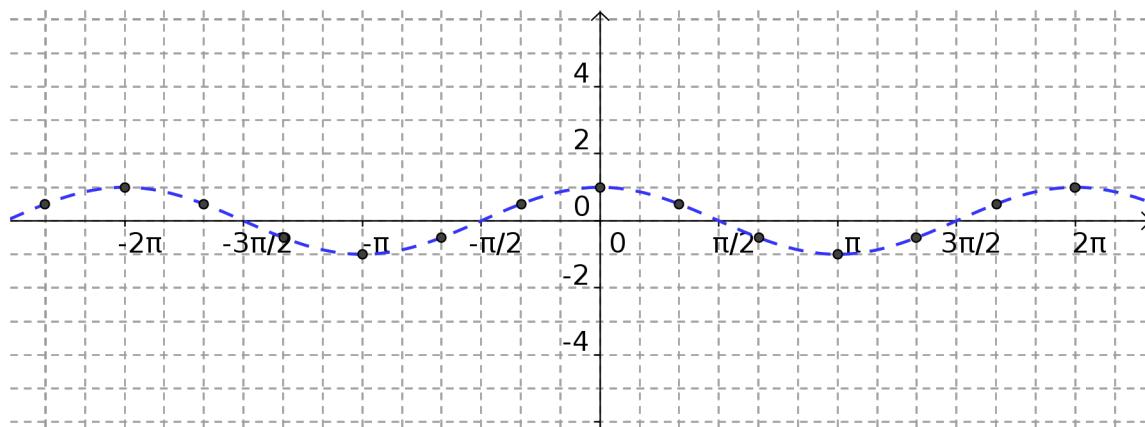
For $y = \csc \theta$, determine the domain and range:

Domain:

Range:

B. Secant

Use the provided graph of $y = \cos \theta$ to graph $y = \sec \theta$. Be sure to indicate all vertical asymptotes use the indicated points to determine other y-values for the reciprocal.



For $y = \sec \theta$, determine the domain and range:

Domain:

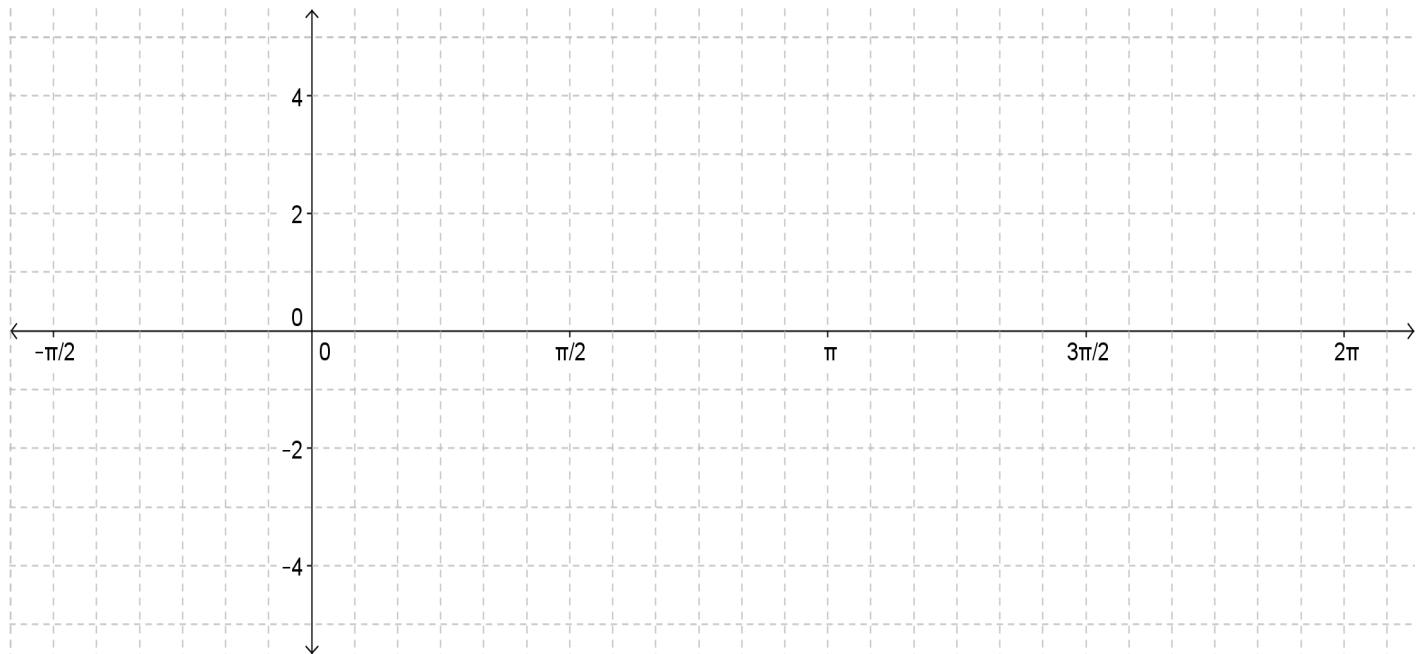
Range:

C. Cotangent

Complete the table of values using the unit circle. Use your answers to graph the function $y = \cot \theta = \frac{\cos \theta}{\sin \theta}$

Angle, θ	$\frac{-\pi}{2}$	$\frac{-\pi}{4}$	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
$y = \sin \theta$											
$y = \cos \theta$											
$\cot \theta = \frac{\cos \theta}{\sin \theta}$											

Round your final ratio value to one decimal place; you cannot graph with more accuracy.



Domain:

Range:

Assigned Work: p.353 # 1, 2, 3, 6, 7