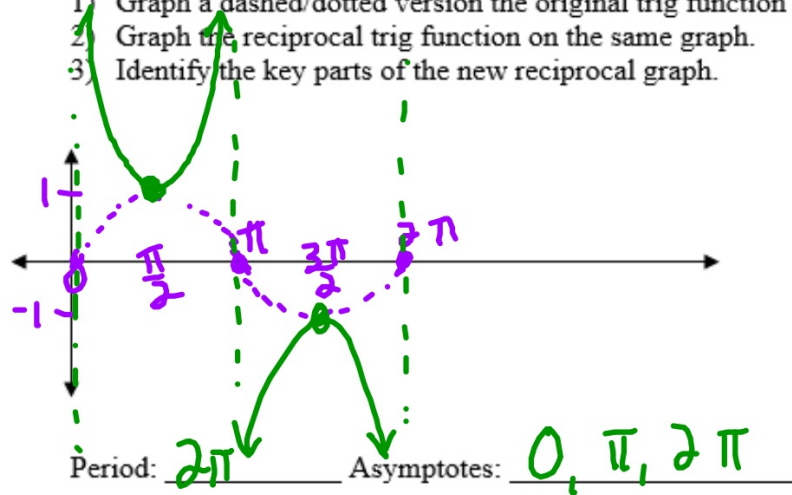


Calculate the value of the following trigonometric functions.

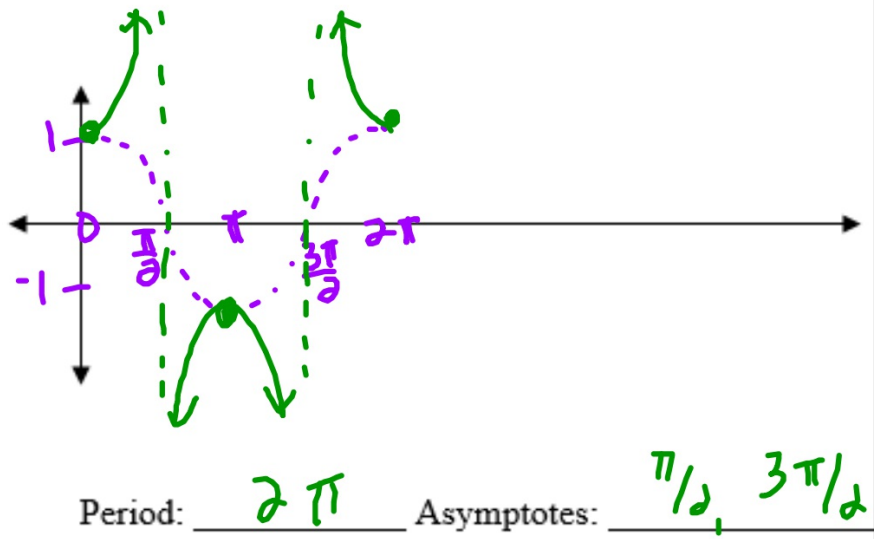
Angle	Sin $\theta$	Csc $\theta$
0	0	$\frac{1}{0}$
45	$\frac{\sqrt{2}}{2}$	$\frac{1}{\sqrt{2}}$
90	1	1
135	$\frac{\sqrt{2}}{2}$	$\frac{1}{\sqrt{2}}$
180	0	$\frac{1}{0}$
225	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{\sqrt{2}}$
270	-1	-1
315	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{\sqrt{2}}$
360	0	$\frac{1}{0}$

Graphs of the reciprocal trigonometric functions are based off the three main trigonometric functions.

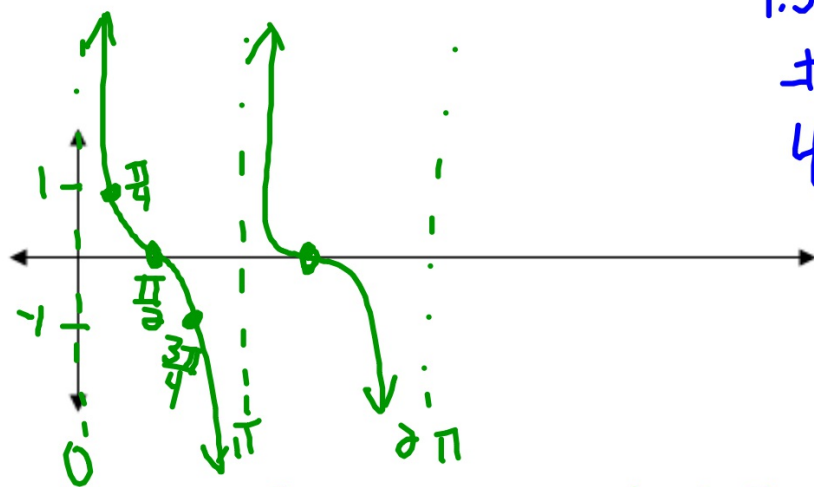
- 1) Graph a dashed/dotted version the original trig function
- 2) Graph the reciprocal trig function on the same graph.
- 3) Identify the key parts of the new reciprocal graph.



$\theta$	$\cos \theta$	$\sec \theta$
	1	1
	$\frac{\sqrt{2}}{2}$	$\sqrt{2}$
	0	$\infty$
	$-\frac{\sqrt{2}}{2}$	$-\sqrt{2}$
	-1	-1
	$-\frac{\sqrt{2}}{2}$	$-\sqrt{2}$
	0	$\infty$
	$\frac{\sqrt{2}}{2}$	$\sqrt{2}$
	1	1



Angle	Tan $\theta$	Cot $\theta$
0	0	$\infty$
45	1	1
90	$\infty$	0
135	-1	-1
180	0	$\infty$
225	1	1
270	$\infty$	0
315	-1	-1
360	0	$\infty$



Period:  $\pi$  Asymptotes:  $0, \pi, 2\pi$

4.5  
 $\pm 1$   
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