

## Graphs of Reciprocal Trigonometric Functions

### Handout: Graphs of Reciprocal Trig Functions

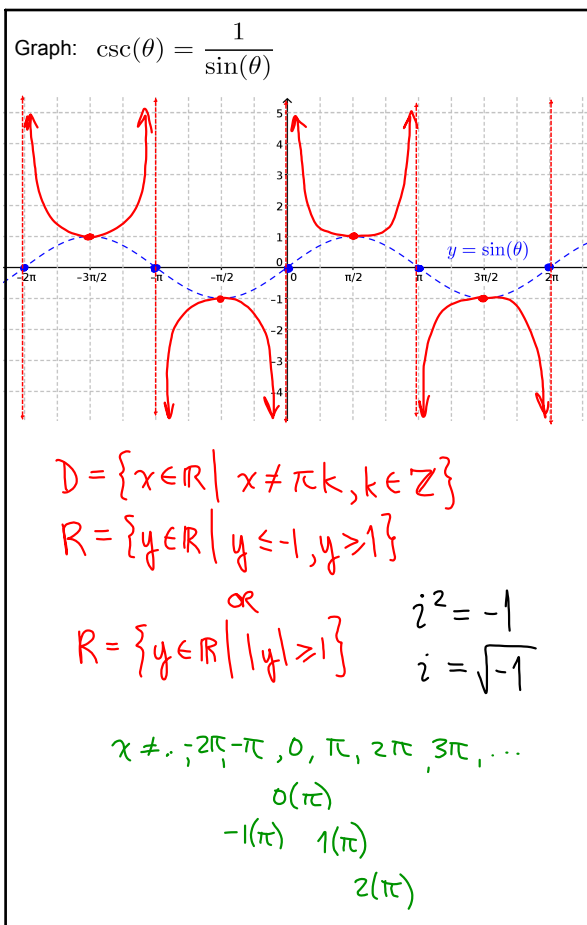
Recall:

$$\csc \theta = \frac{1}{\sin \theta} = \frac{r}{y}$$

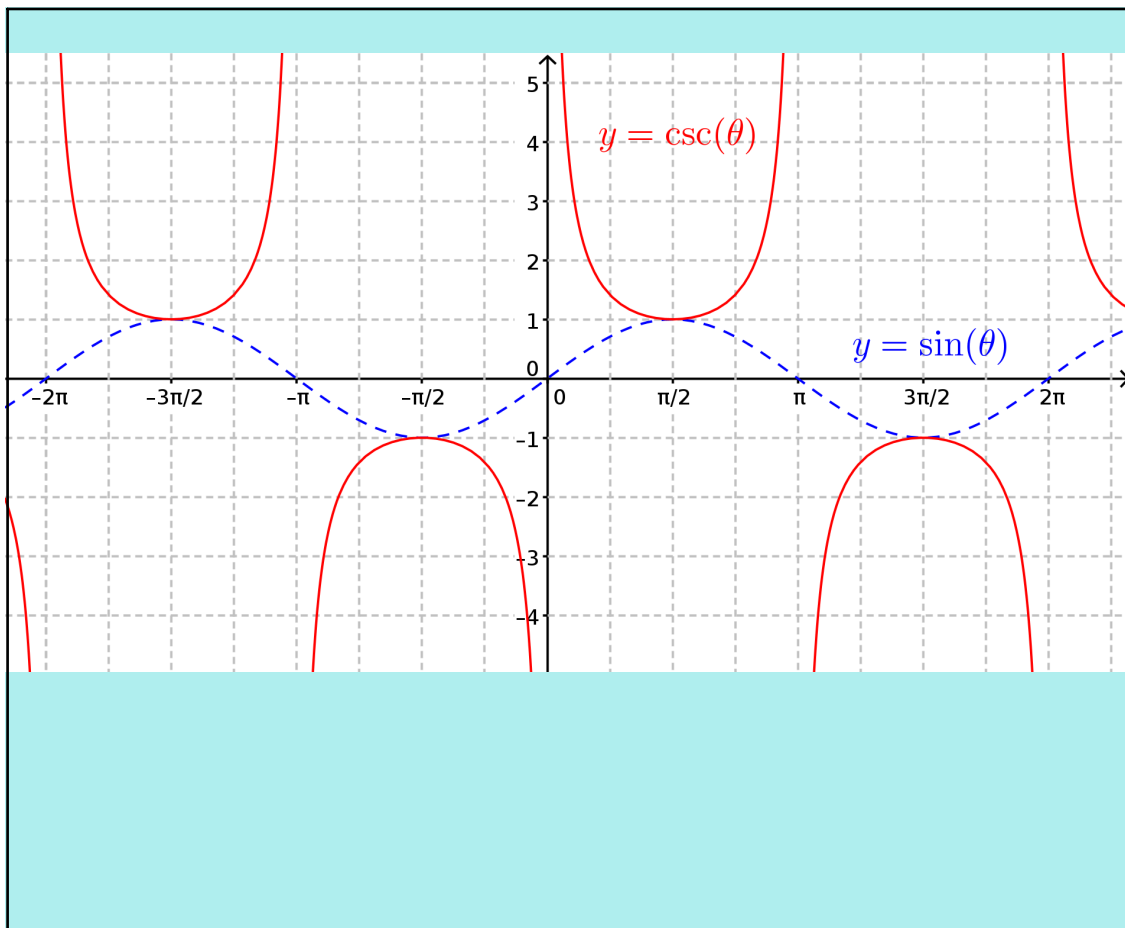
$$\sec \theta = \frac{1}{\cos \theta} = \frac{r}{x}$$

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

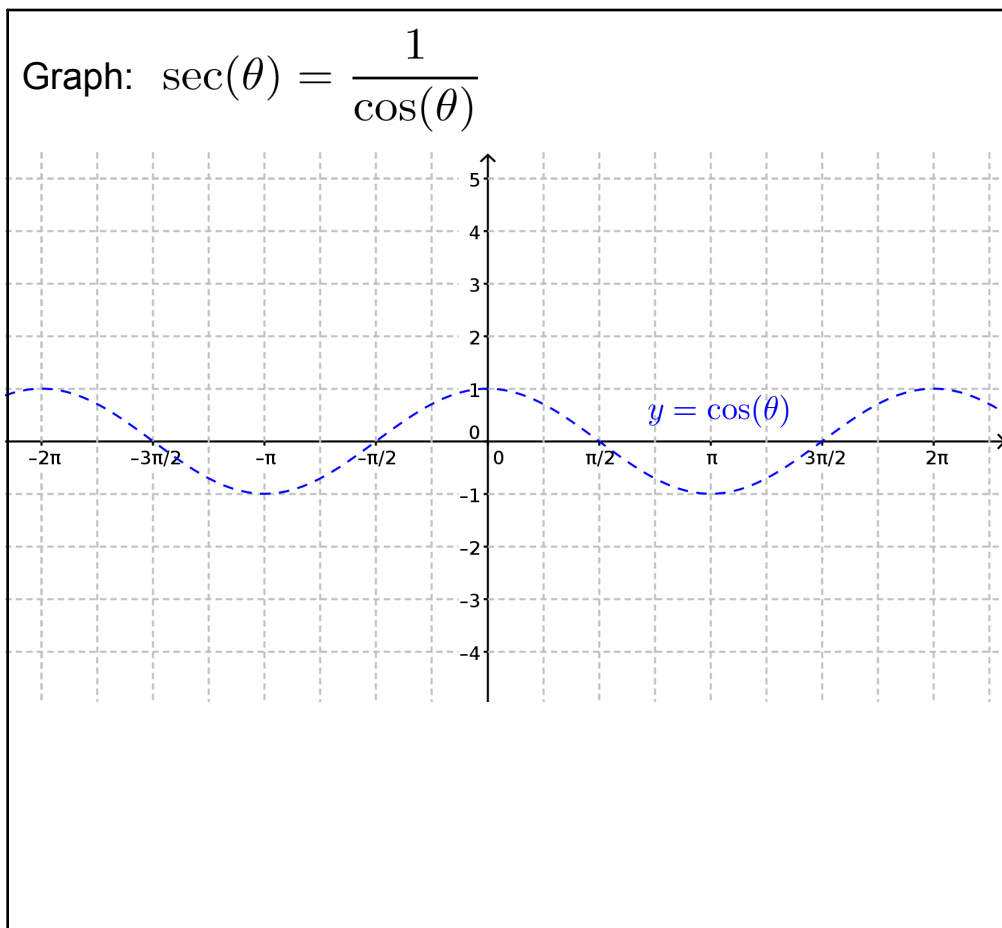
May 17-9:17 AM



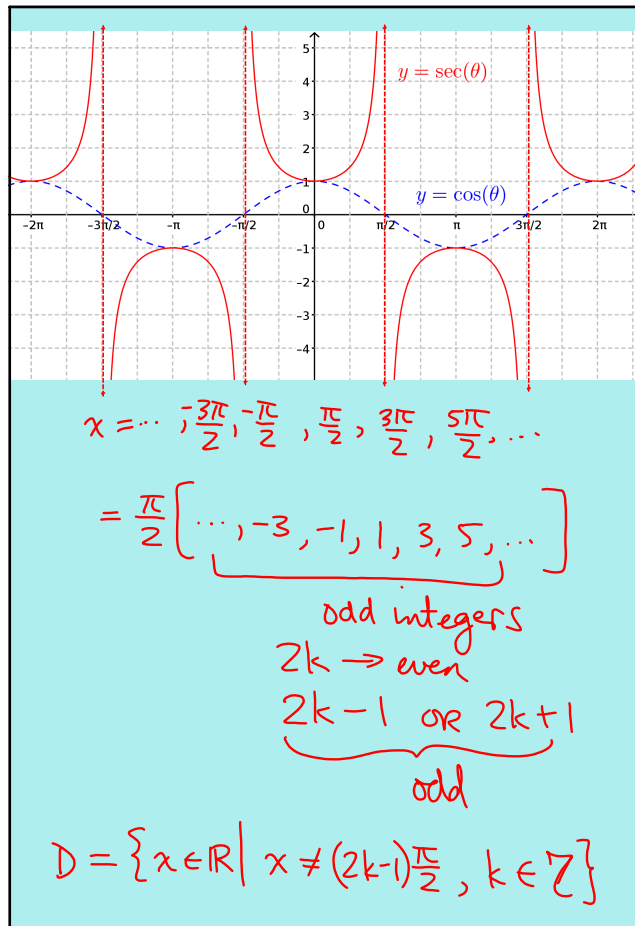
May 16-9:08 AM



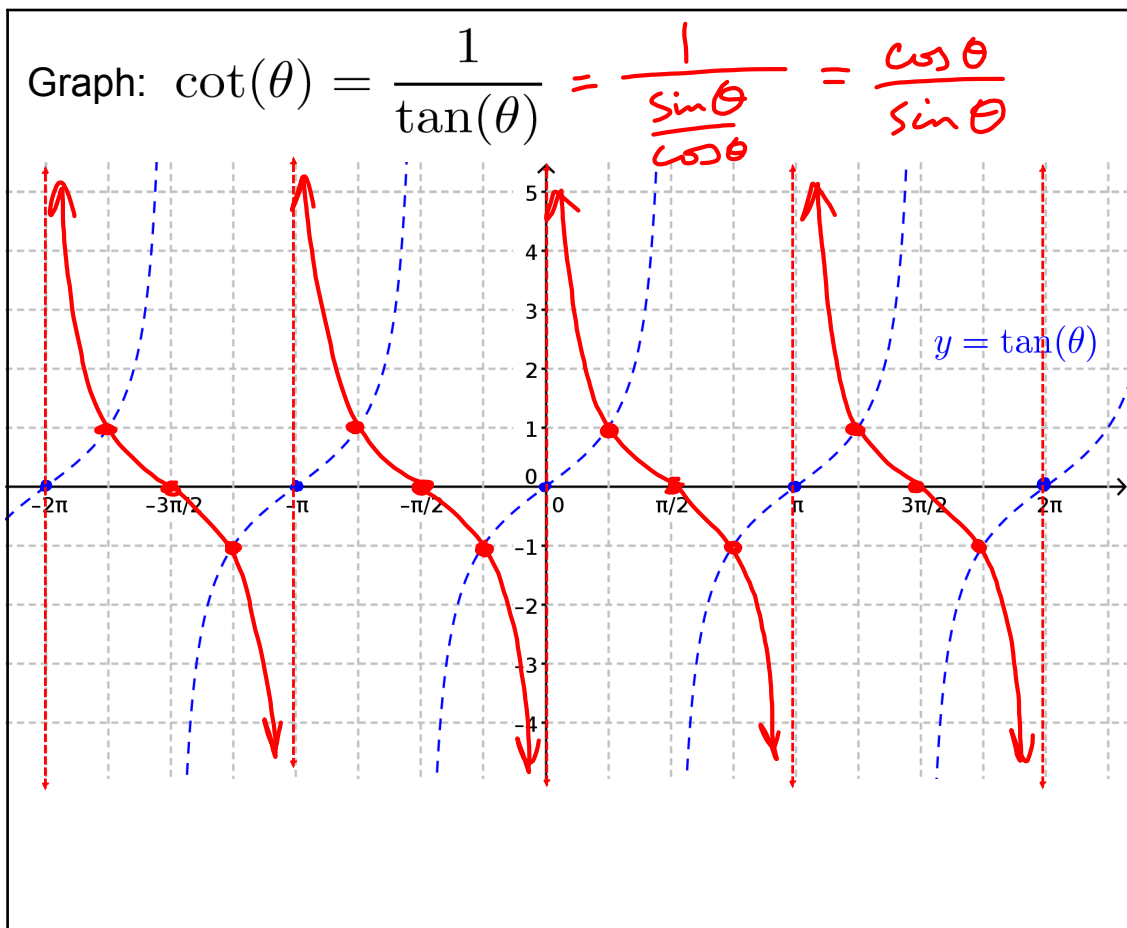
Oct 30-9:25 PM



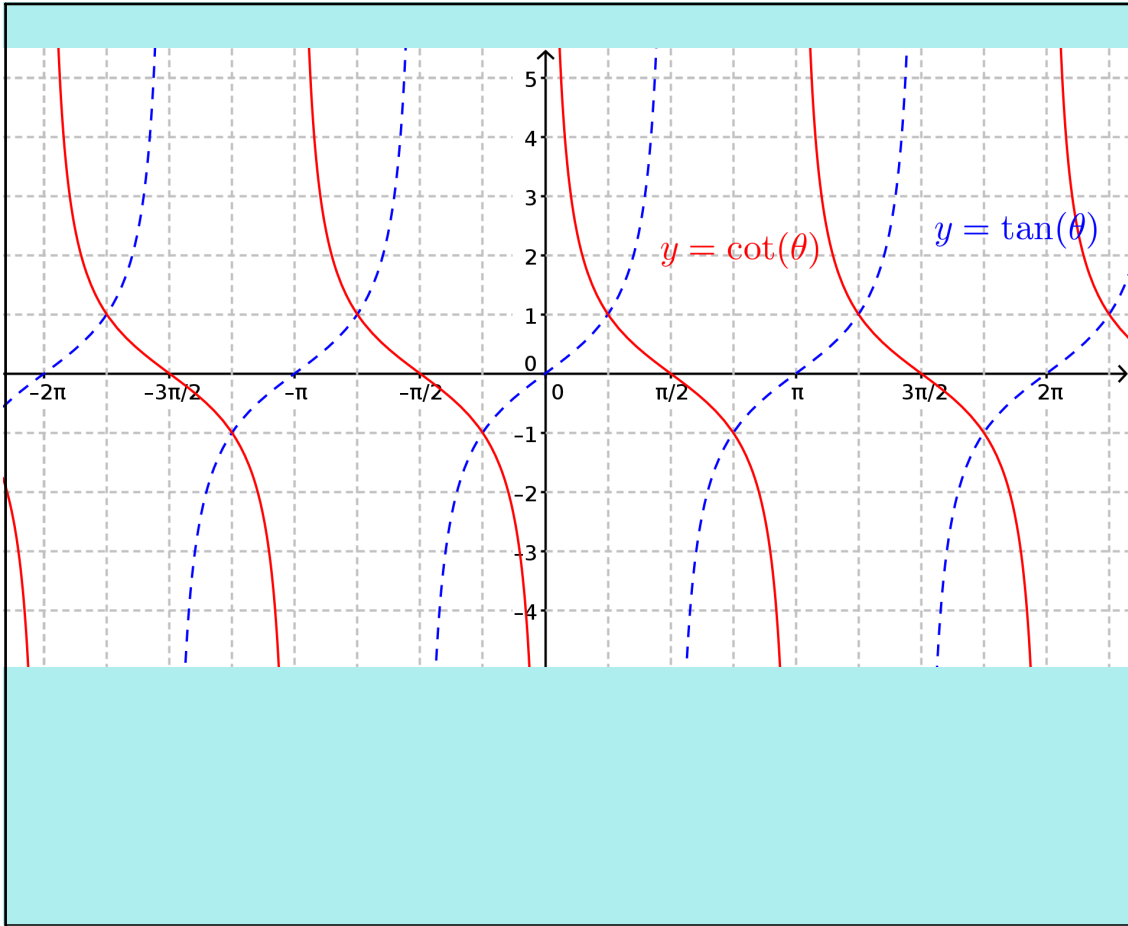
May 16-9:08 AM



May 16-9:08 AM



May 16-9:08 AM



May 16-9:08 AM

Assigned Work:

p.353 # 1, 2, 3, 6, 7  
 $d$   
 $b$  or  $2b$   
 $a$

1.  $t_n = a + (n-1)d$

$\dots, -\pi, 0, \pi, 2\pi, \dots$   
 $a = 0 \quad 2\pi - \pi = \pi = d$

VA:  $t_n = 0 + (n-1)(\pi), n \in \mathbb{Z}$   
 $= (n-1)\pi$   
 $= \pi n - \pi$   
 or  $t_n = \pi n$

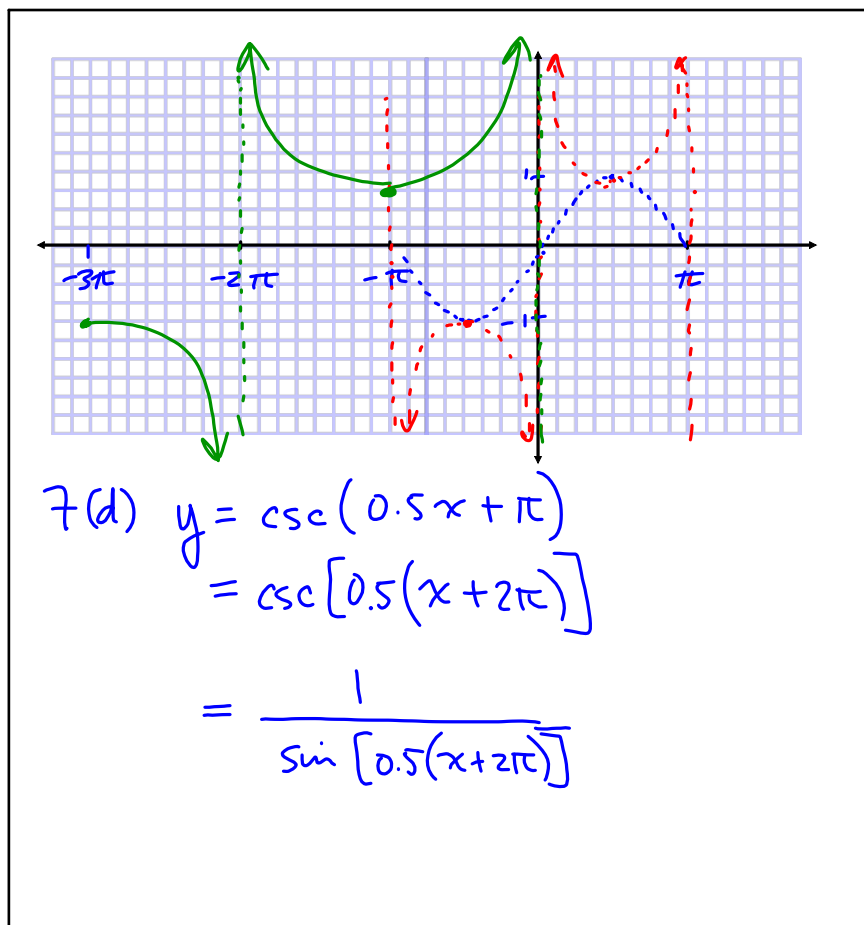
---

$f(x) = \sin x \quad g(x) = \sin(x - 6\pi)$

May 22-8:28 AM

7(d)

Nov 1-12:54 PM



Oct 31-10:13 AM