

← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 5 Quiz Math 2550 (Quiz)

 INSTRUCTOR

Bradford Thompson

South College

Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10
POINTS	-/10	-/10	-/10	-/10	-/10	-/10	-/10	-/10	-/10	-/10
TOTAL SCORE										
										-/100 0.0%

Due Date

TUE, AUG 24, 2021

11:59 PM EDT



Request Extension

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

1. [-/10 Points]

DETAILS

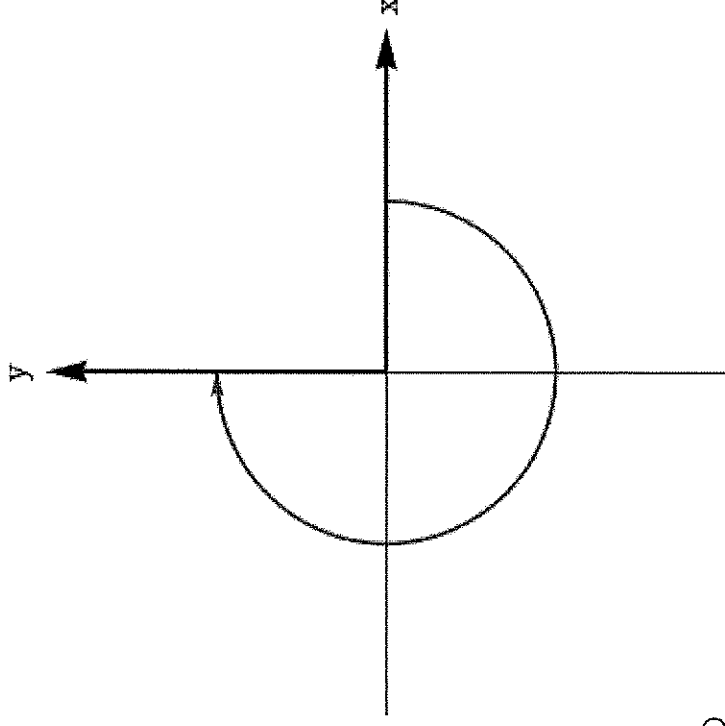
LARPCALC10 4.1.014.

MY NOTES

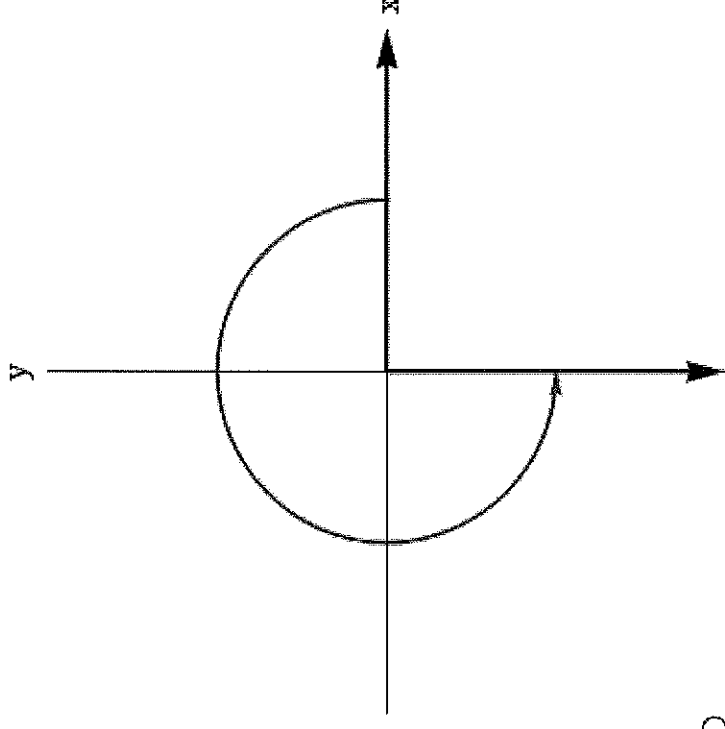
ASK YOUR TEACHER

Sketch each angle in standard position.

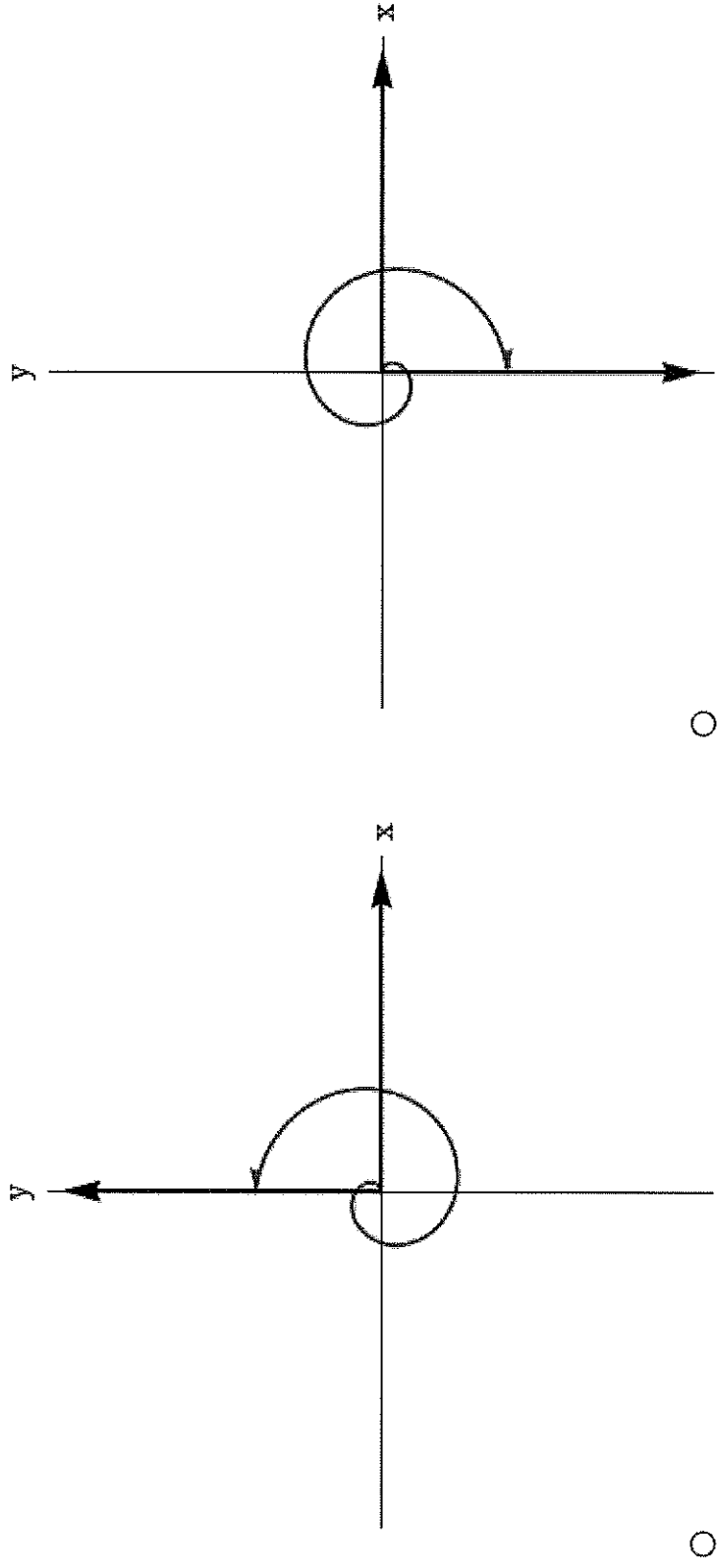
(a) $\frac{5\pi}{2}$



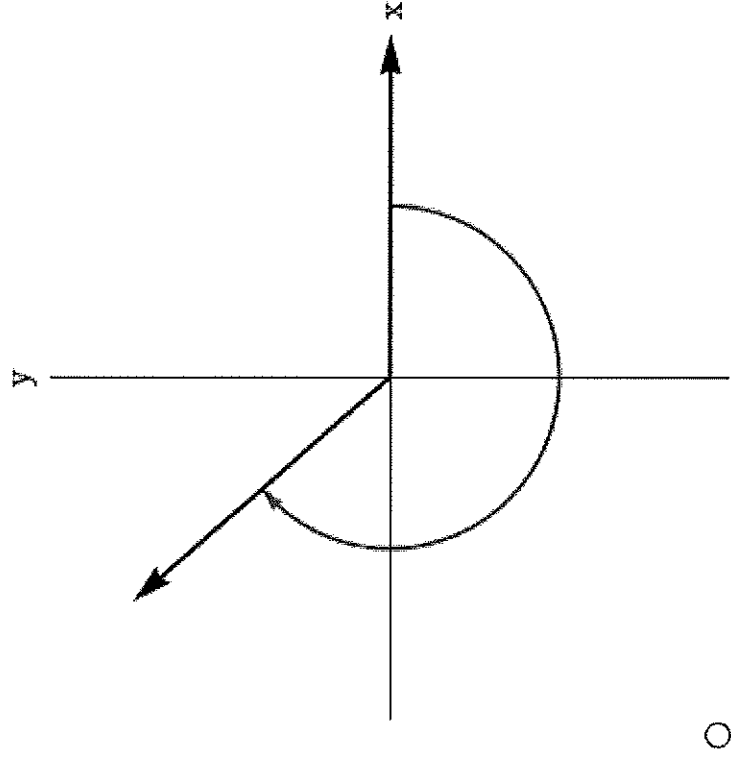
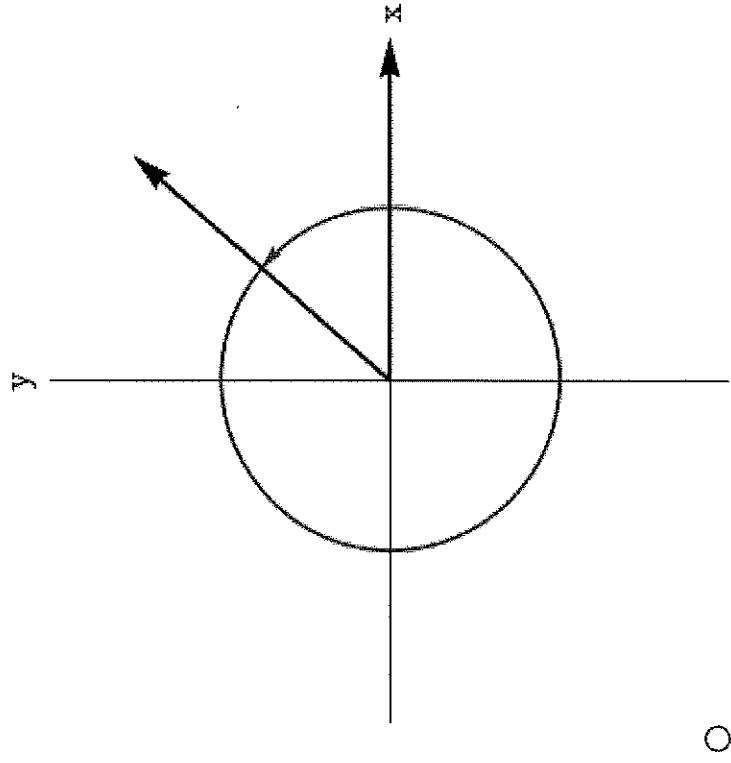
○

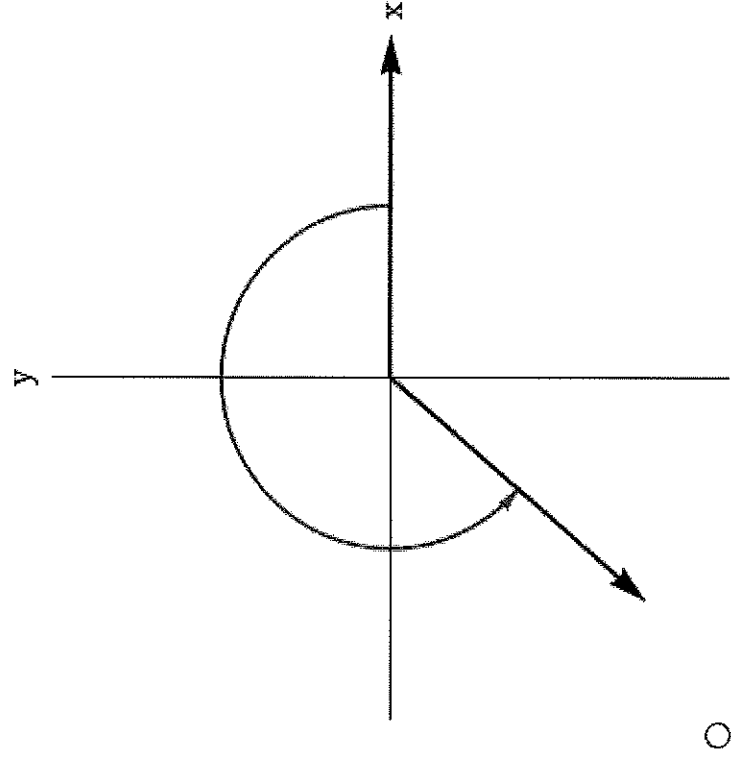
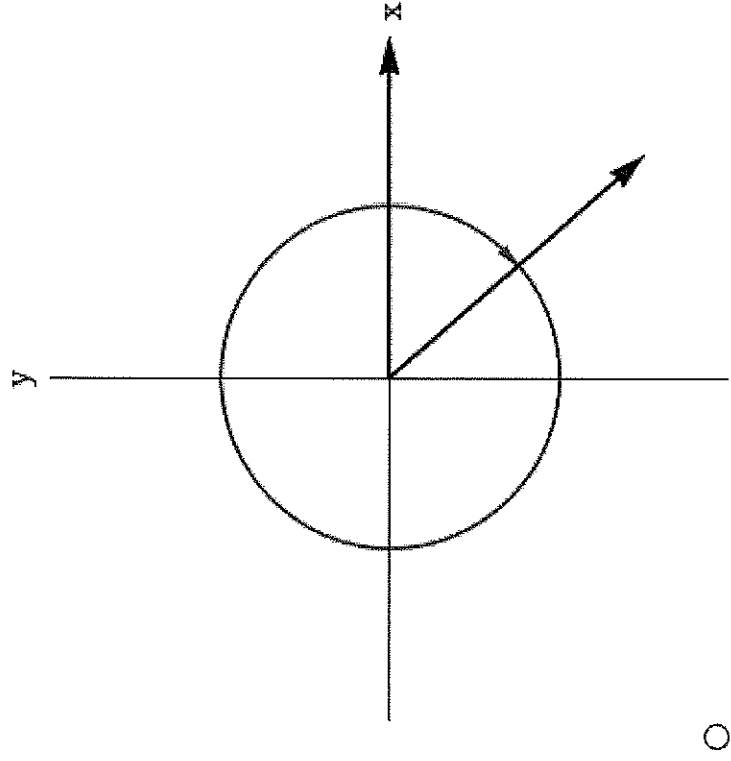


○



(b) 4





2. [-10 Points]

DETAILS

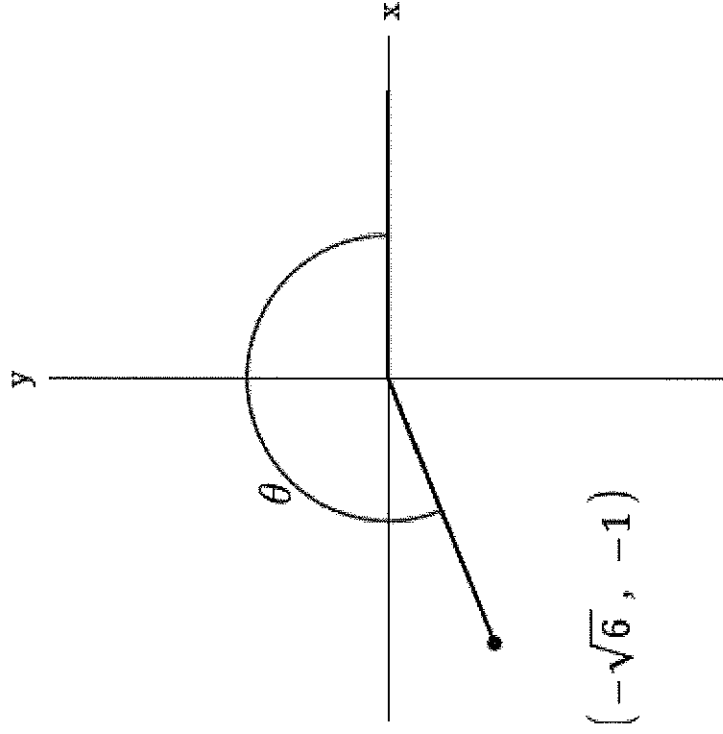
LARPCALC10 4.4.011.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the six trigonometric functions of each angle θ .

(a)

 $\sin(\theta) =$ $\cos(\theta) =$

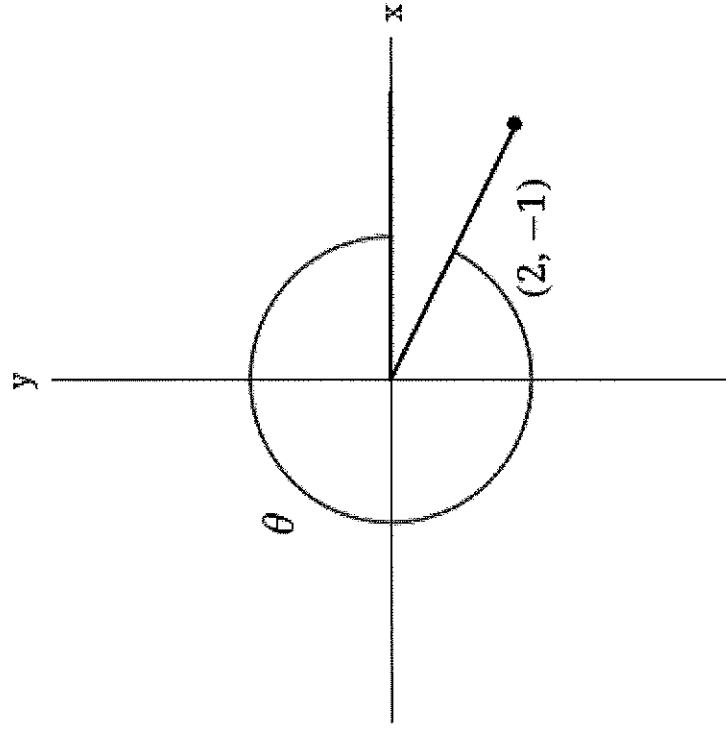
$$\tan(\theta) =$$

$$\csc(\theta) =$$

$$\sec(\theta) =$$

$$\cot(\theta) =$$

(b)



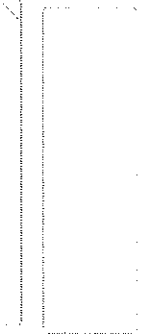
$$\sin(\theta) =$$

$$\cos(\theta) =$$

$$\tan(\theta) =$$



$\csc(\theta) =$



$\sec(\theta) =$



$\cot(\theta) =$

3. [-/10 Points]

DETAILS

LARPCALC10 4.2.015.

MY NOTES

ASK YOUR TEACHER

Evaluate (if possible) the sine, cosine, and tangent at the real number t . (If an answer is undefined, enter UNDEFINED.)

$$t = -\frac{7\pi}{6}$$

 $\sin t =$ $\cos t =$ $\tan t =$

4. [-/10 Points]

DETAILS

LARPCALC10 4.1.012.

MY NOTES

ASK YOUR TEACHER

Determine the quadrant in which each angle lies. (The angle measure is given in radians.)

(a) $-\frac{\pi}{4}$

☐ I☐ II☐ III☐ IV

(b) $\frac{13\pi}{9}$

☐ I☐ II☐ III☐ IV

5. [-/10 Points]

DETAILS

LARPCALC10 4.4.023.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the remaining trigonometric functions of θ satisfying the given conditions. (If an answer is undefined, enter UNDEFINED.)

$$\tan \theta = \frac{12}{5}, \quad \sin \theta > 0$$

$$\sin \theta = \boxed{}$$

$$\cos \theta = \boxed{}$$

$$\csc \theta = \boxed{}$$

$$\sec \theta = \boxed{}$$

$$\cot \theta = \boxed{}$$

6. [-/10 Points]

DETAILS

LARPCALC10 4.1.020.

MY NOTES

ASK YOUR TEACHER

Find (if possible) the complement and supplement of each angle. (Round your answers to two decimal places. If not possible, enter IMPOSSIBLE.)

(a) 3

complement

radians

supplement

radians

(b) 0.5

complement

radians

supplement

radians

7. [-/10 Points]

DETAILS

LARPCALC10 4.3.016.

MY NOTES

ASK YOUR TEACHER

Sketch a right triangle corresponding to the trigonometric function of the acute angle θ . Then find the exact values of the other five trigonometric functions of θ .

$$\sin(\theta) = \frac{3}{5}$$

 $\cos(\theta) =$ $\tan(\theta) =$ $\csc(\theta) =$ $\sec(\theta) =$ $\cot(\theta) =$

8. [-/10 Points]

DETAILS

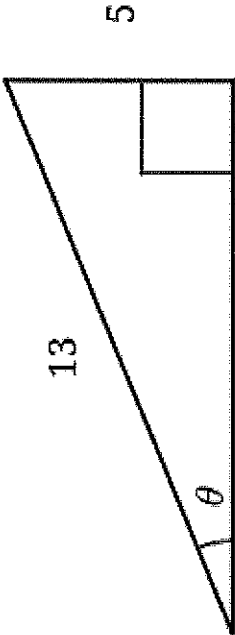
LARPCALC10 4.3.006.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the six trigonometric functions of the angle θ shown in the figure.

 $\sin(\theta) =$ $\cos(\theta) =$ $\tan(\theta) =$ $\csc(\theta) =$ $\sec(\theta) =$ $\cot(\theta) =$



9. [-/10 Points]

DETAILS

LARPCALC10 4.3.025.

MY NOTES

ASK YOUR TEACHER

Construct an appropriate triangle to complete the table. ($0^\circ \leq \theta \leq 90^\circ$, $0 \leq \theta \leq \pi/2$)

Function	θ (deg)	θ (rad)	Function Value
$\sin$		$\frac{\pi}{3}$	

10. [-/10 Points]

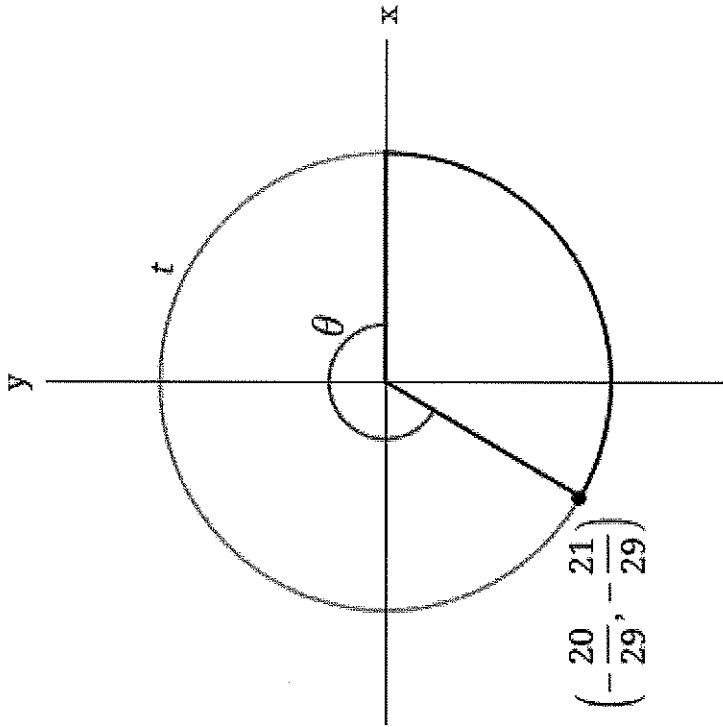
DETAILS

LARPCALC10 4.2.007.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the six trigonometric functions of the real number t .



$\sin t =$

$\csc t =$

$\cos t =$

$\sec t =$

$\tan t =$

$\cot t =$

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