

← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 5 Math 2550 (Homework)

 INSTRUCTOR
Bradford Thompson
South College

Current Score													
QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13
POINTS	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54	-/4.54
TOTAL SCORE													
- / 100 0.0%													

Due Date

TUE, AUG 24, 2021

11:59 PM EDT

 **Request Extension**

 **Description**



Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by questions. You are required to use a new randomization after every 3 question submissions.

Assignment Scoring

Your best submission for each question part is used for your score.

1. [-/4.54 Points]

DETAILS

LARPCALC10 4.1.011. 0/15 Submissions Used

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) $-\frac{5\pi}{4}$

☐ I☐ II☐ III☐ IV

Need Help?

Read It

2. [-/4.54 Points]

DETAILS

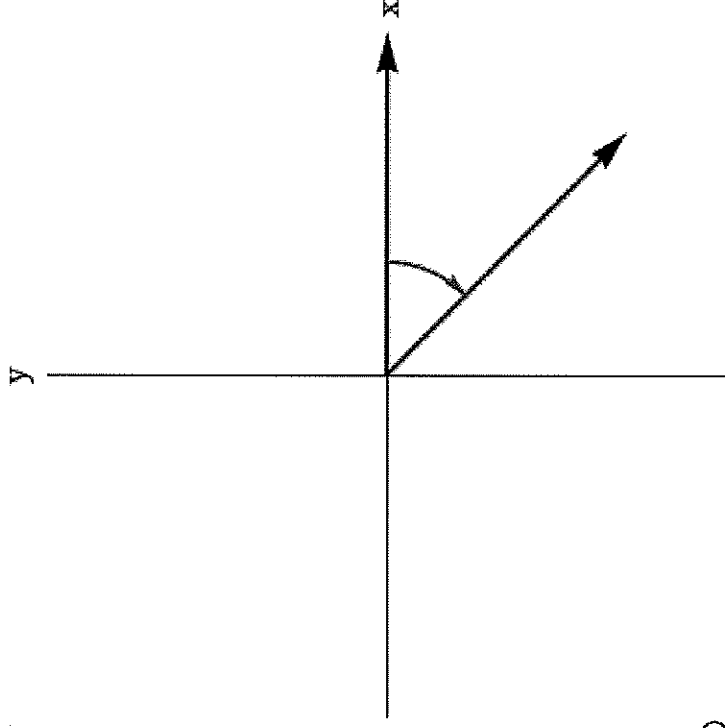
LARPCALC10 4.1.013. 0/15 Submissions Used

MY NOTES

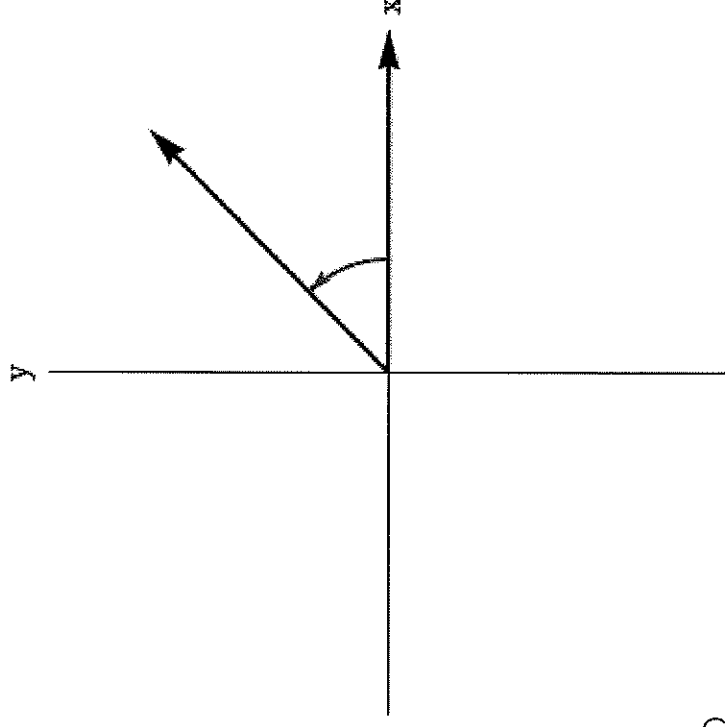
ASK YOUR TEACHER

Sketch each angle in standard position.

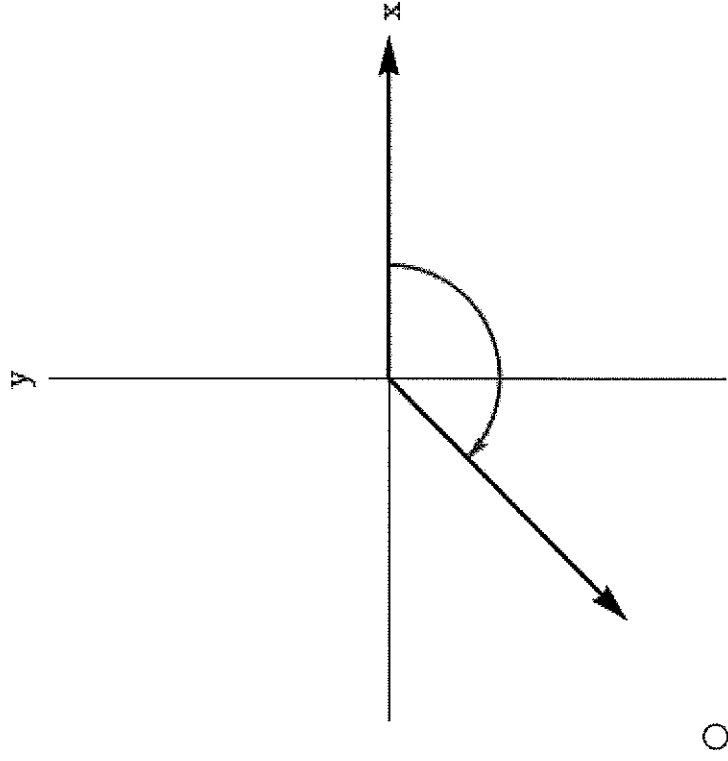
(a) $\frac{\pi}{4}$



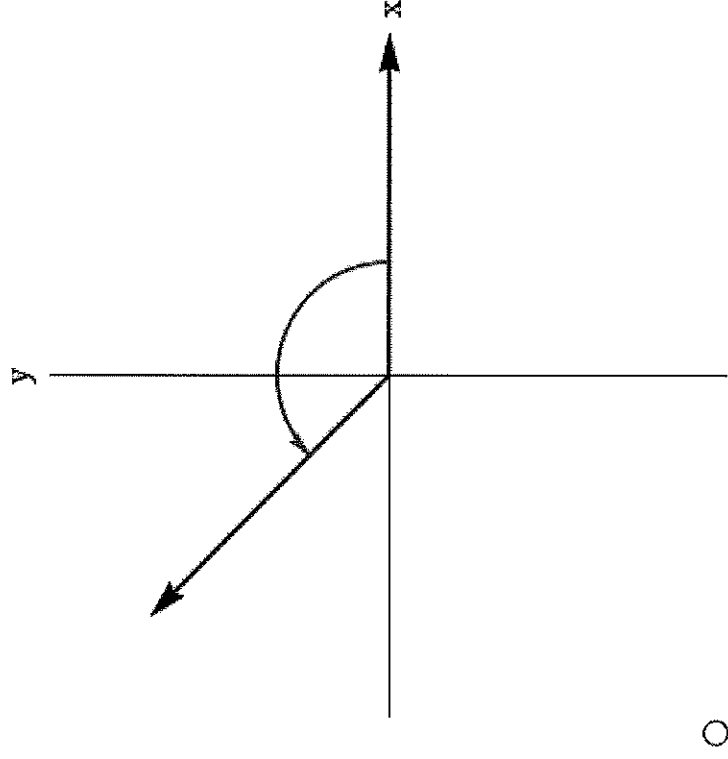
○

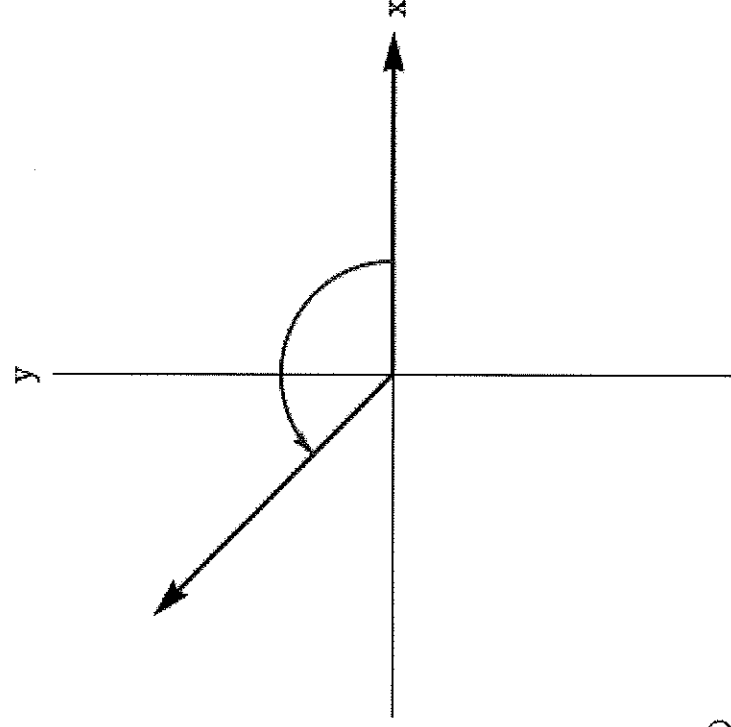
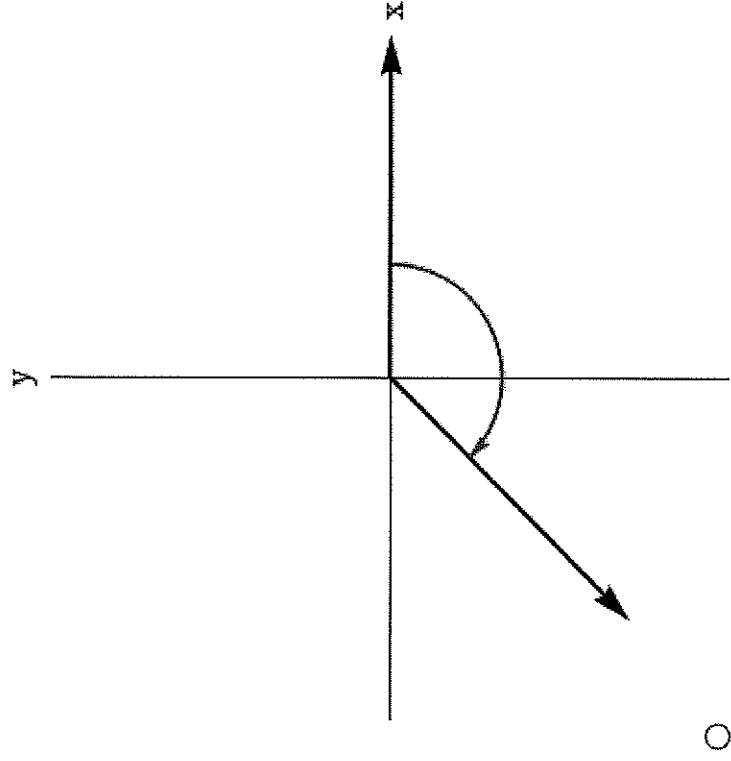


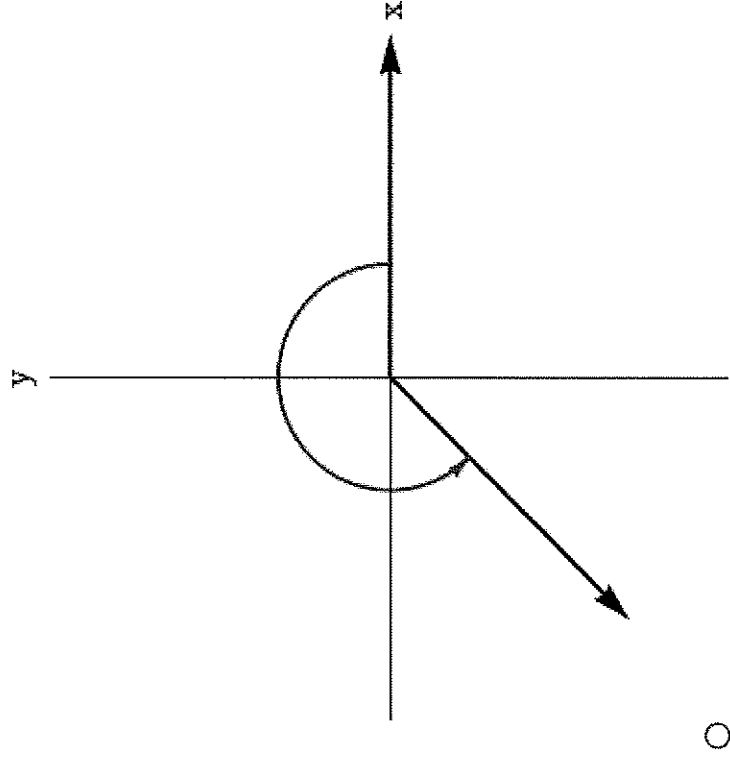
○



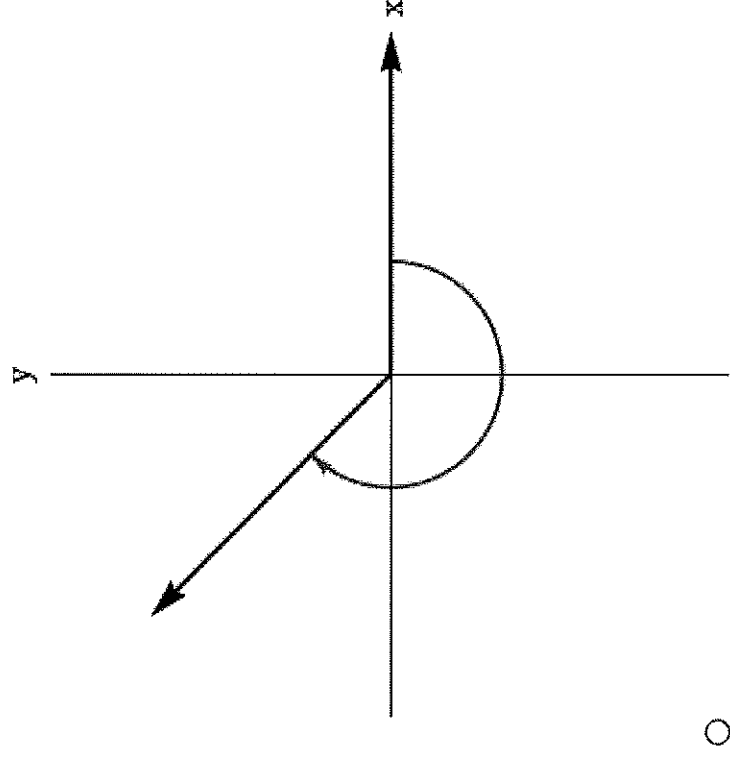
(b) $-\frac{3\pi}{4}$





☐

Need Help?

☐

3. [-/4.54 Points]

DETAILS

LARPCALC10 4.1.015. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Determine two coterminal angles (one positive and one negative) for each angle. Give your answers in radians. (Enter your answers as a comma-separated list.)

(a) $\frac{\pi}{6}$

(b) $-\frac{3\pi}{4}$

Need Help?

Read it

4. [-/4.54 Points]

DETAILS

LARPCALC10 4.1.016. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Determine two coterminal angles (one positive and one negative) for each angle. Give your answers in radians. (Enter your answers as a comma-separated list.)

(a) $\frac{5\pi}{6}$

(b) $-\frac{9\pi}{4}$

Need Help?

Read It

5. [-/4.54 Points]

DETAILS

LARPCALC10 4.1.018. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find (if possible) the complement and the supplement of each angle. (If not possible, enter IMPOSSIBLE.)

(a) $\frac{\pi}{6}$

complement

radians

supplement

radians

(b) $\frac{\pi}{4}$

complement

radians

supplement

radians

Need Help?

Read It

6. [-/4.54 Points]

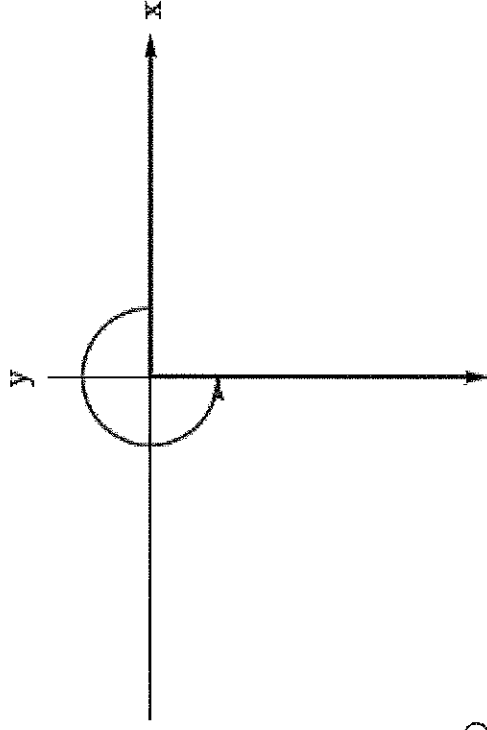
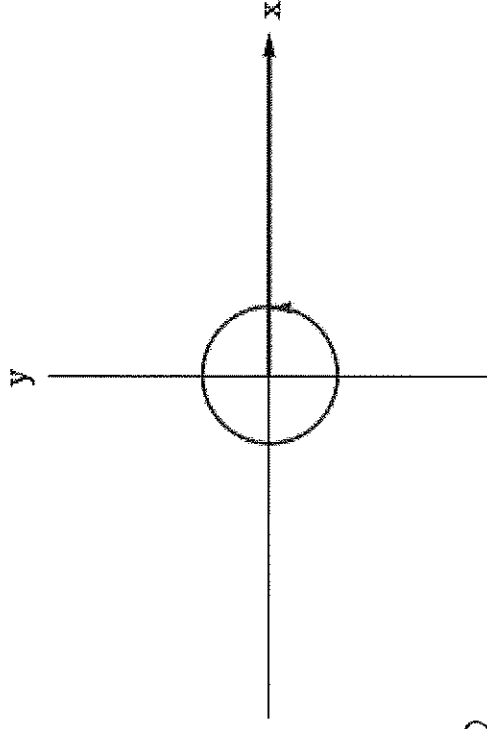
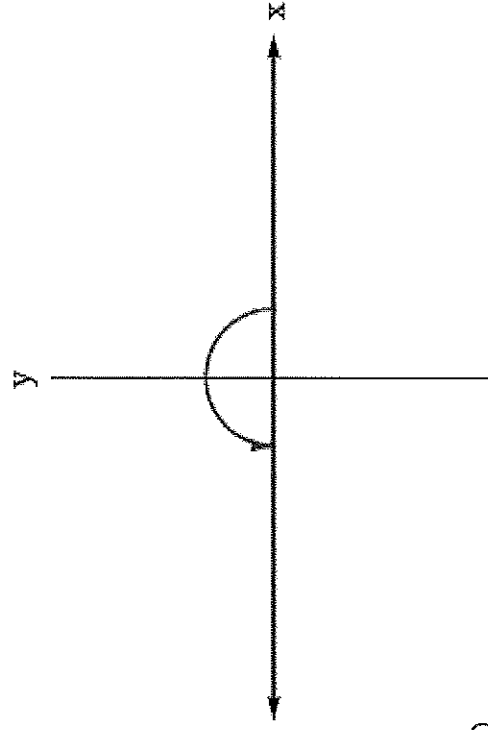
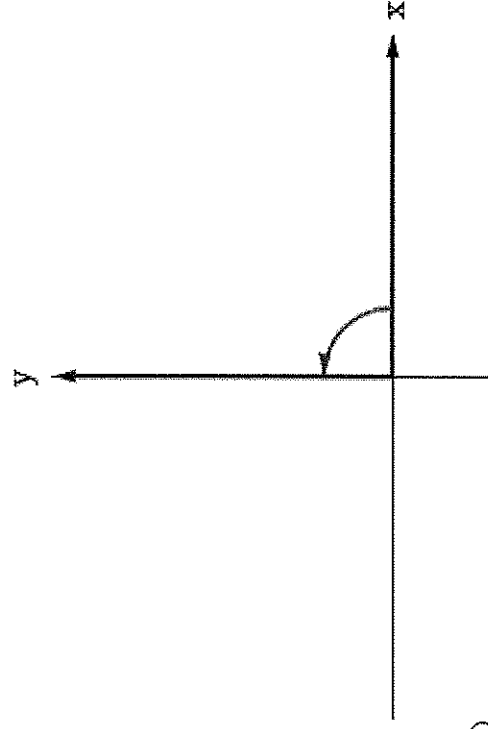
DETAILS

LARPCALC10 4.1.027. 0/15 Submissions Used

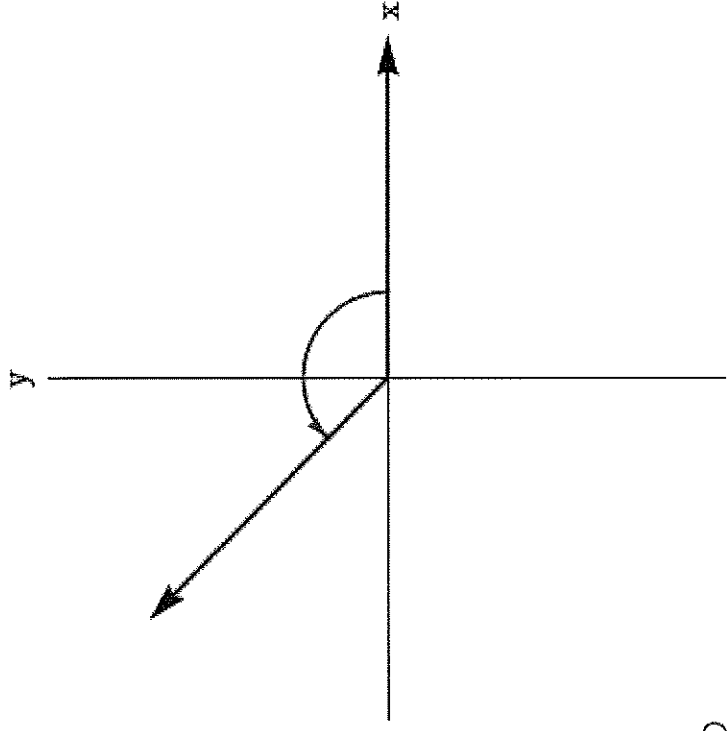
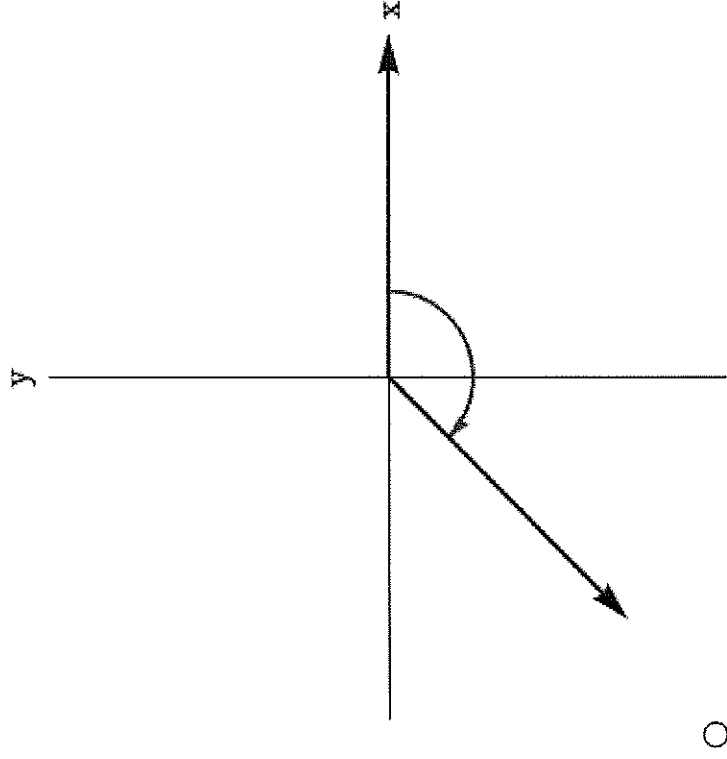
MY NOTES

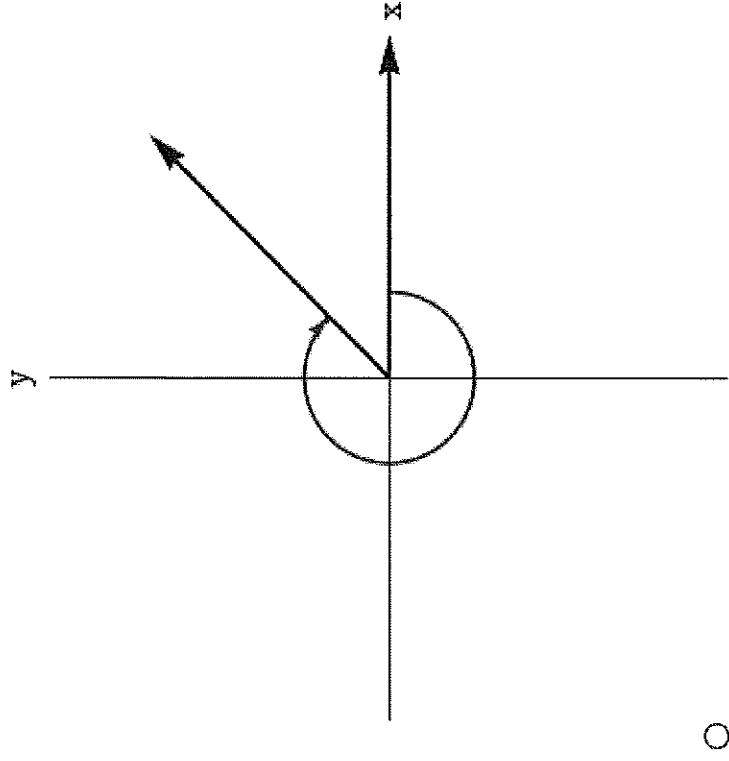
ASK YOUR TEACHER

Sketch each angle in standard position.

(a) 270° ☐☐☐☐

(b) -135°

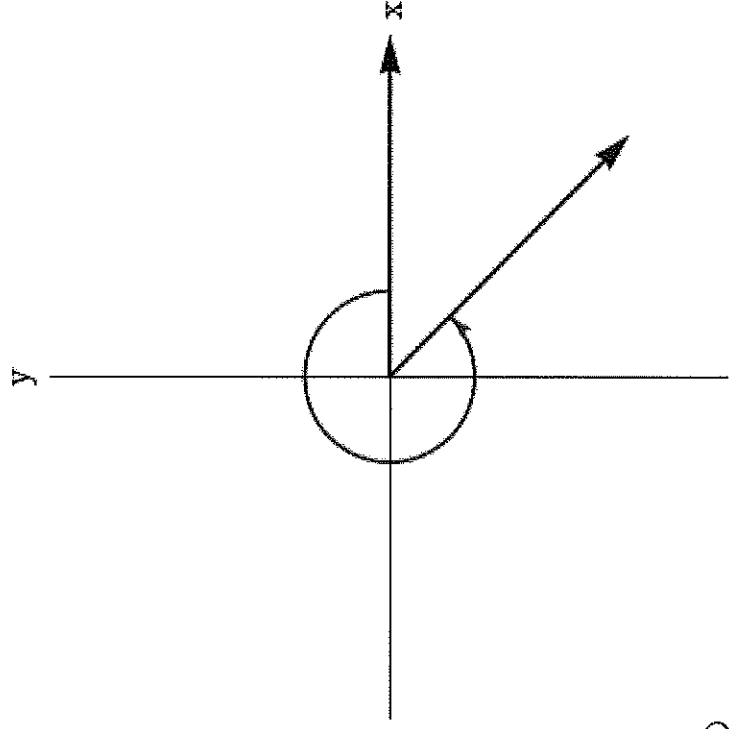


☐☐

Need Help?

Read It

Watch It



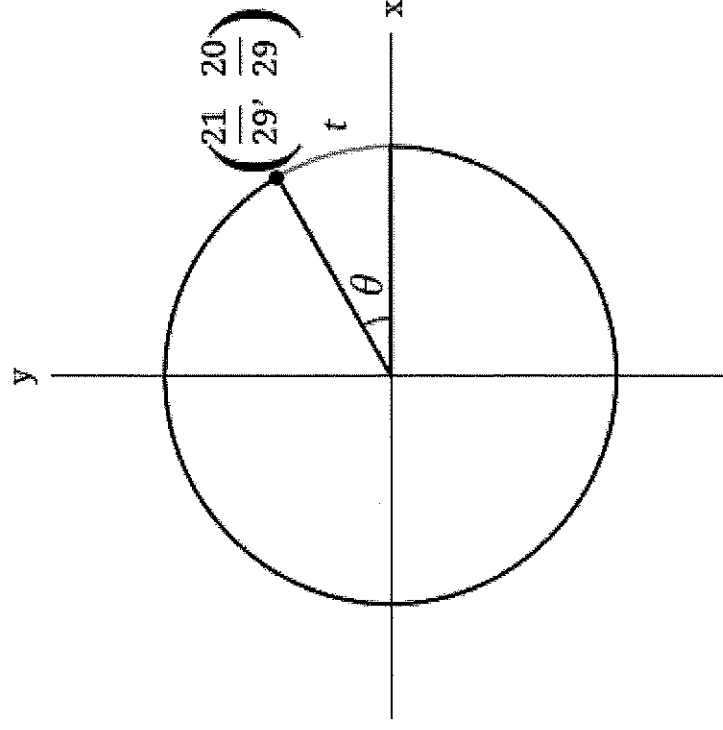
7. [-/4.54 Points]

DETAILS

LARPCALC10 4.2.005. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find the exact values of the six trigonometric functions of the real number t . $\sin t =$ $\csc t =$ $\cos t =$ $\sec t =$ $\tan t =$ $\cot t =$

Need Help?

[Read It](#)

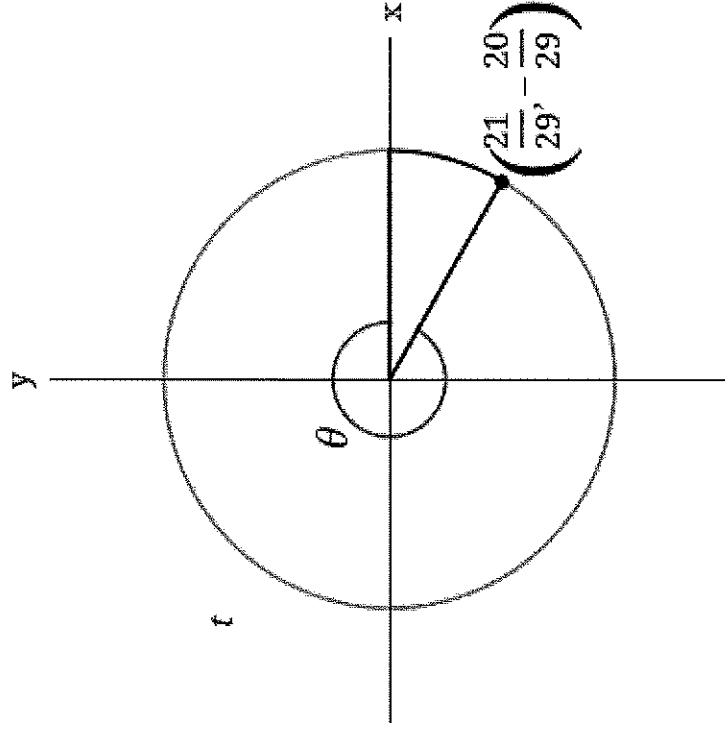
8. [-/4.54 Points]

DETAILS

LARPCALC10 4.2.008. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$\sin t =$

$\csc t =$

$\cos t =$

$\sec t =$

$\tan t =$

$\cot t =$

Need Help?

Read It

Watch It

9. [-/4.54 Points]

DETAILS

LARPCALC10 4.2.011. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find the point (x, y) on the unit circle that corresponds to the real number t .

$$t = 7\pi/6$$

 $(x, y) = ($

)

Need Help?

Read It

10. [-/4.54 Points]

DETAILS

LARPCALC10 4.2.014. 0/15 Submissions Used

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.)

$$t = \frac{\pi}{3}$$

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

Need Help?

Read It

Watch It

11. [-/4.54 Points]

DETAILS

LARPCALC10 4.2.020.MI. 0/15 Submissions Used

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.)

$$t = \frac{2\pi}{3}$$

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

Need Help?

Read it

Watch It

Master It

12. [-/4.54 Points]

DETAILS

LARPCALC10 4.3.005. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$\sin(\theta) =$$

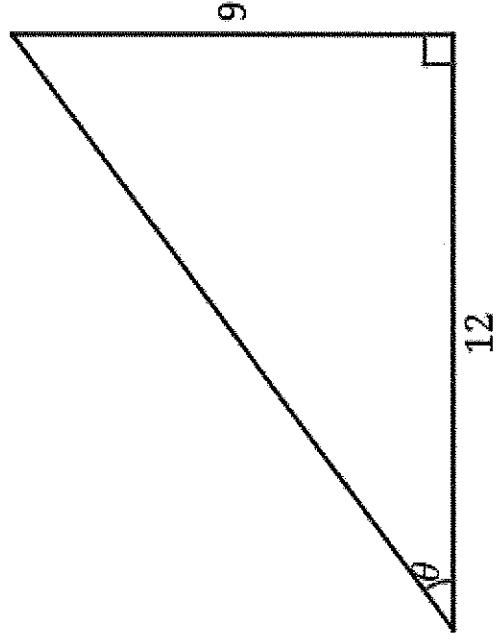
$$\cos(\theta) =$$

$$\tan(\theta) =$$

$$\csc(\theta) =$$

$$\sec(\theta) =$$

$$\cot(\theta) =$$



Need Help?

Read It

13. [-/4.54 Points]

DETAILS

LARPCALC10 4.3.008. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$\sin(\theta) =$$

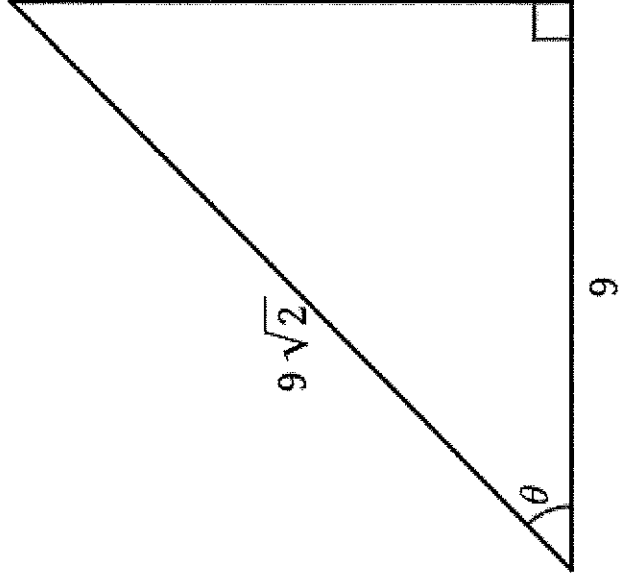
$$\cos(\theta) =$$

$$\tan(\theta) =$$

$$\csc(\theta) =$$

$$\sec(\theta) =$$

$$\cot(\theta) =$$



Need Help?

Read It

14. [-/4.54 Points]

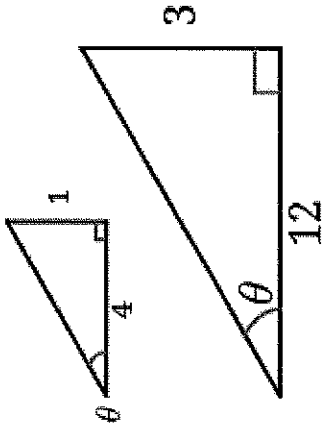
DETAILS

LARPCALC10 4.3.014. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find the exact values of the six trigonometric functions of the angle θ for each of the two triangles. Explain why the function values are the same.



Smaller Triangle

$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

Larger Triangle

$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

$\csc \theta =$ $\csc \theta =$ $\sec \theta =$ $\sec \theta =$ $\cot \theta =$ $\cot \theta =$

Explain why the function values are the same.

- ☐ The triangles are similar so corresponding sides are proportional.
- ☐ The triangles are congruent so the trigonometric function values must be the same.

Need Help?

Read It

Watch It

15. [-/4.54 Points]

DETAILS

LARPCALC10 4.3.017. 0/15 Submissions Used

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 .

$$\sec(\theta) = \frac{7}{6}$$

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

Need Help?

Read It

16. [-/4.54 Points]

DETAILS

LARPCALC10 4.3.024. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

Function	θ (deg)	θ (rad)	Function Value
cos	45°		

Need Help?

Read It

Watch It

17. [-/4.54 Points]

DETAILS

LARPCALC10 4.3.028. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

Function	θ (deg)	θ (rad)	Function Value
csc		$\frac{\pi}{4}$	

Need Help?

Read It

18. [-/4.54 Points]

DETAILS

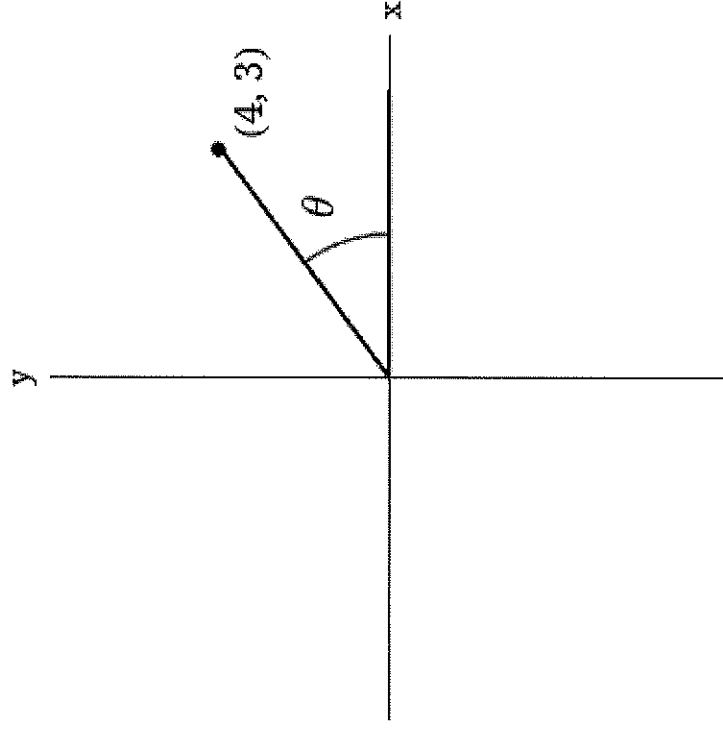
LARPCALC10 4.4.009. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

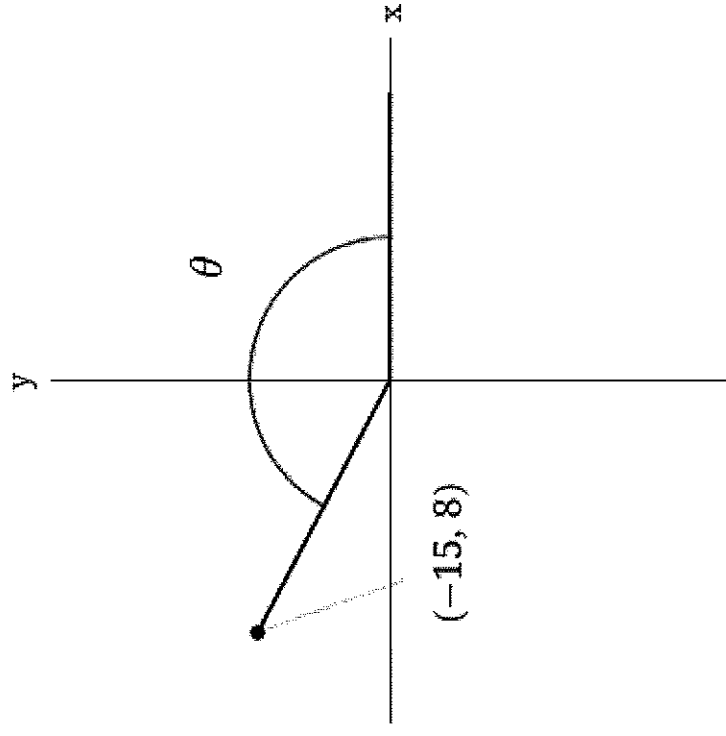
Find the exact values of the six trigonometric functions of each angle θ .

(a)

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

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

(b)



$$\sin(\theta) =$$

$$\cos(\theta) =$$

$$\tan(\theta) =$$

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

Need Help?

Read It

19. [-/4.54 Points]

DETAILS

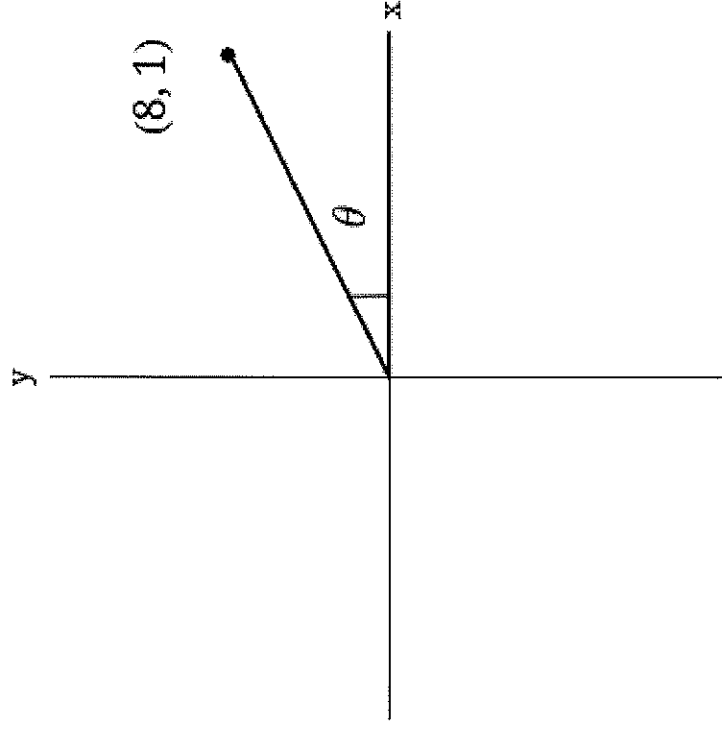
LARPCALC10 4.4.012. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

(a)



$$\sin(\theta) =$$

$$\cos(\theta) =$$

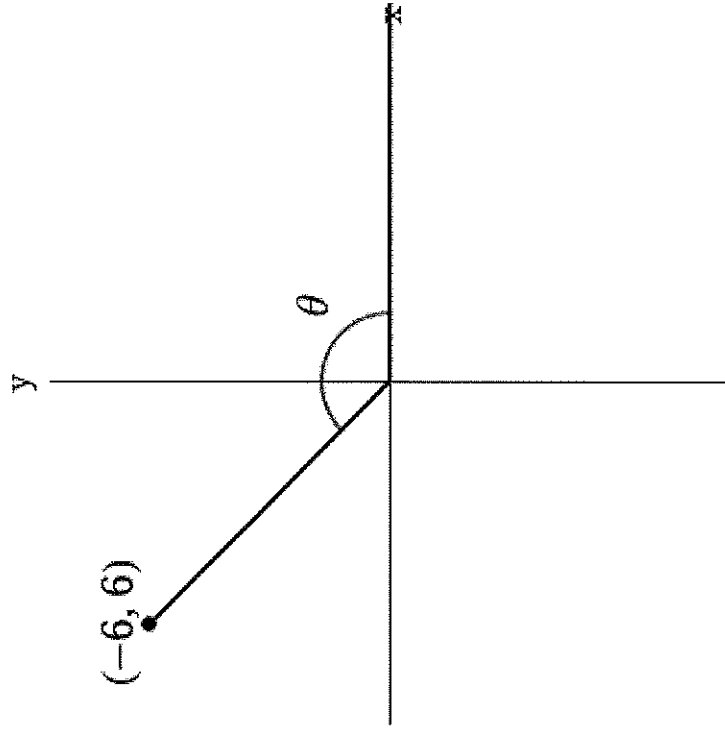
$$\tan(\theta) =$$

$$\csc(\theta) =$$

$$\sec(\theta) =$$

$$\cot(\theta) =$$

(b)



$\sin(\theta) =$

$\cos(\theta) =$

$\tan(\theta) =$

$\csc(\theta) =$

$\sec(\theta) =$

$\cot(\theta) =$

Need Help?

Read It

20. [-/4.54 Points]

DETAILS

LARPCALC10 4.4.016.MI. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

The point is on the terminal side of an angle in standard position. Find the exact values of the six trigonometric functions of the angle.

 $(-4, 18)$ $\sin \theta =$ $\cos \theta =$ $\tan \theta =$ $\csc \theta =$ $\sec \theta =$

$\cot \theta =$

Need Help?

Read It

Watch It

Master It

21. [-4.54 Points]

DETAILS

LARPCALC10 4.4.021. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Determine the quadrant in which θ lies.

$\csc(\theta) > 0, \tan(\theta) < 0$

☐ I

☐ II

☐ III

☐ IV

Need Help?

Read It

22. [-/4.66 Points]

DETAILS

LARPCALC10 4.4.025. 0/15 Submissions Used

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.)

$\sin \theta = 0.8$, θ lies in Quadrant II.

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

Need Help?

Read It

Submit Assignment

Save Assignment Progress

[Home](#)

[My Assignments](#)



Request Extension

Copyright © 1998 - 2021 Cengage Learning, Inc. All Rights Reserved

[TERMS OF USE](#)

[PRIVACY](#)