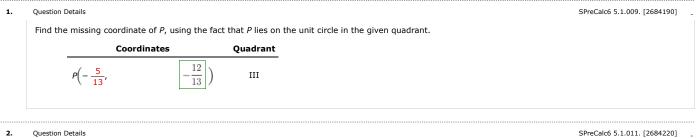
$1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11\ 12\ 13\ 14\ 15\ 16\ 17\ 18\ 19\ 20\ 21\ 22\ 23\ 24\ 25\ 26\ 27\ 28\ 29\ 30$ Question

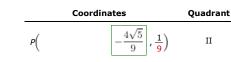
Description

This is the review for Exam #2. Please work as many problems as possible before we review in-class. As always, if you need anything, please email me Joshua.Patterson@tamuc.edu



Question Details 2.

Find the missing coordinate of *P*, using the fact that *P* lies on the unit circle in the given quadrant.



з. Question Details

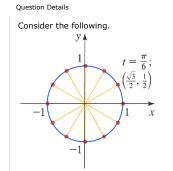
Consider the following. y, $t = \frac{\pi}{4};$ $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

Find t and the terminal point determined by t for each point in the figure, where t is increasing in increments of $\pi/4$.

t		Terminal Point
0	(1, 0)
$\frac{\pi}{4}$		$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$
$\frac{\pi}{2}$	(0, 1)
$\frac{3\pi}{4}$	($-\frac{\sqrt{2}}{2},\frac{\sqrt{2}}{2}\Big)$
π	((-1, 0)
$\frac{5\pi}{4}$	($\left(-\frac{\sqrt{2}}{2},-\frac{\sqrt{2}}{2}\right)$
$\frac{3\pi}{2}$	(0, -1)
$\frac{7\pi}{4}$	($\left\lfloor \frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2} \right\rfloor \Big)$
2π	(1,0)

SPreCalc6 5.1.021. [1713018]

SPreCalc6 5.1.022. [1713072]



4.

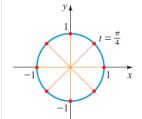
Find t and the terminal point determined by t for each point in the figure, where t is increasing in increments of $\pi/6$.

t		Terminal Point
0	(1, 0)
<u>π</u> 6		$\left(\frac{\sqrt{3}}{2},\frac{1}{2}\right)$
$\frac{\pi}{3}$	($\frac{1}{2}, \frac{\sqrt{3}}{2} \Big)$
$\frac{\pi}{2}$	(0, 1)
$\frac{2\pi}{3}$	($-\frac{1}{2},\frac{\sqrt{3}}{2}\Big)$
$\frac{5\pi}{6}$	($-\frac{\sqrt{3}}{2},\frac{1}{2} \biggr)$
π	((-1, 0)
$\frac{7\pi}{6}$	($-\frac{\sqrt{3}}{2},-\frac{1}{2} \biggr)$
$\frac{4\pi}{3}$	($-\frac{1}{2},-\frac{\sqrt{3}}{2} \Big)$
$\frac{3\pi}{2}$	(0,-1)
$\frac{5\pi}{3}$	($\frac{1}{2},-\frac{\sqrt{3}}{2}\Big)$
$\frac{11\pi}{6}$	($\boxed{\frac{\sqrt{3}}{2},-\frac{1}{2}} \Big)$
2π	(1,0)

5. Question Details

-

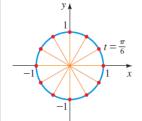
Find sin t and cos t for the values of t whose terminal points are shown on the unit circle in the figure. t increases in increments of $\pi/4$.



t	sin t	cos t
0	0	1
$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$
<u>π</u> 2	1	0
$\frac{3\pi}{4}$	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$
π	0	-1
$\frac{5\pi}{4}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$
$\frac{3\pi}{2}$	-1	0
$\frac{7\pi}{4}$	$-\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$

6. Question Details

Find sin t and cos t for the values of t whose terminal points are shown on the unit circle in the figure. t increases in increments of $\pi/6$.



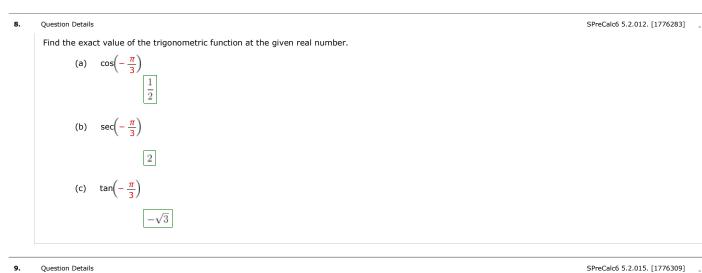
t	sin t	cos t
0	0	1
$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$
$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
<u>π</u> 2	1	0
$\frac{2\pi}{3}$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$
$\frac{5\pi}{6}$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$
π	0	-1
$\frac{7\pi}{6}$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$
$\frac{4\pi}{3}$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$
$\frac{3\pi}{2}$	-1	0
$\frac{5\pi}{3}$	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
$\frac{11\pi}{6}$	$-\frac{1}{2}$	$\frac{\sqrt{3}}{2}$

7. Question Details

Find the exact value of the trigonometric function at the given real number.

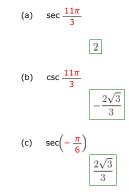
(a)	$\sin \frac{11\pi}{4}$	$\frac{\sqrt{2}}{2}$
(b)	$\csc \frac{11\pi}{4}$	
(c)	$\cot \frac{11\pi}{4}$	$\sqrt{2}$
		-1

SPreCalc6 5.2.011. [1776239]

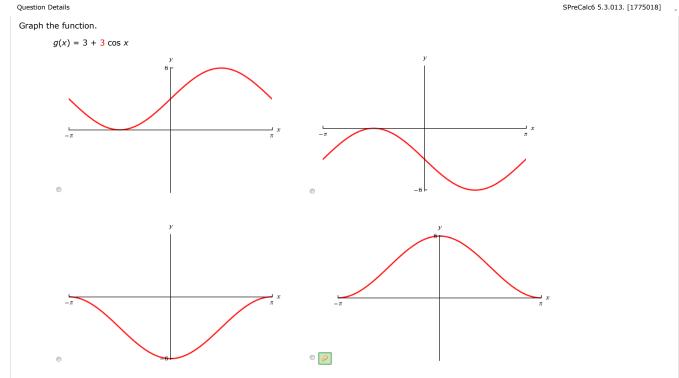


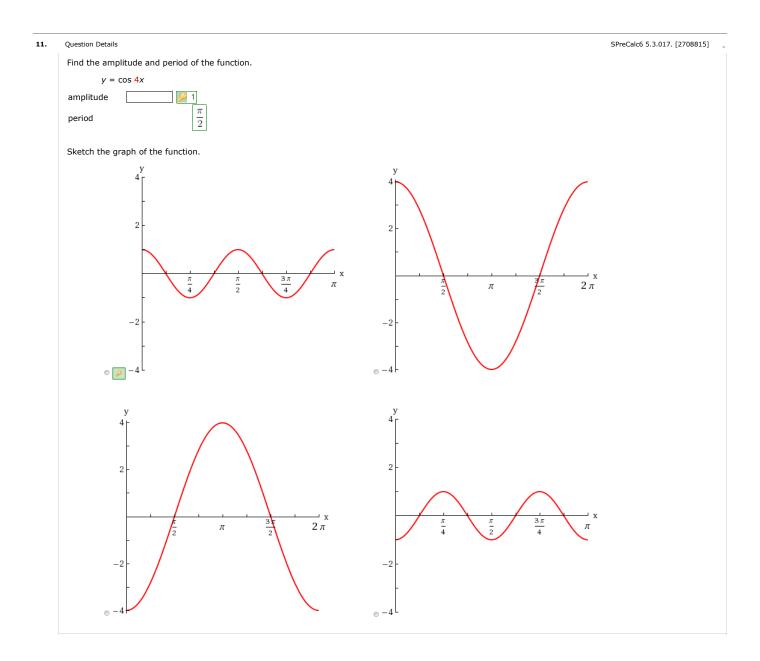
9. Question Details

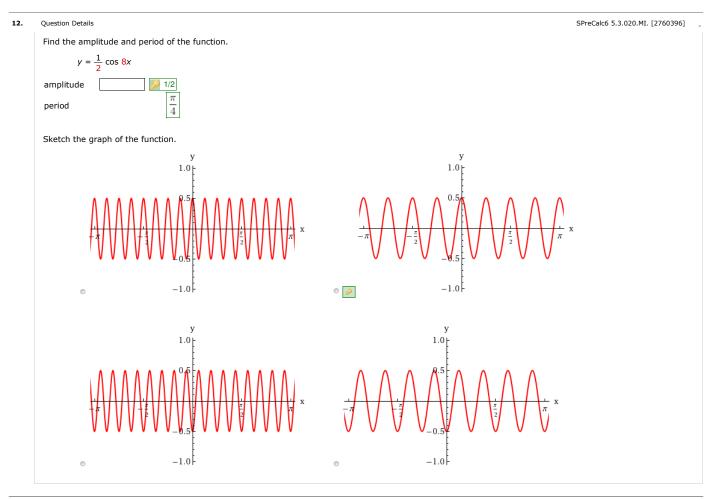
Find the exact value of the trigonometric function at the given real number.



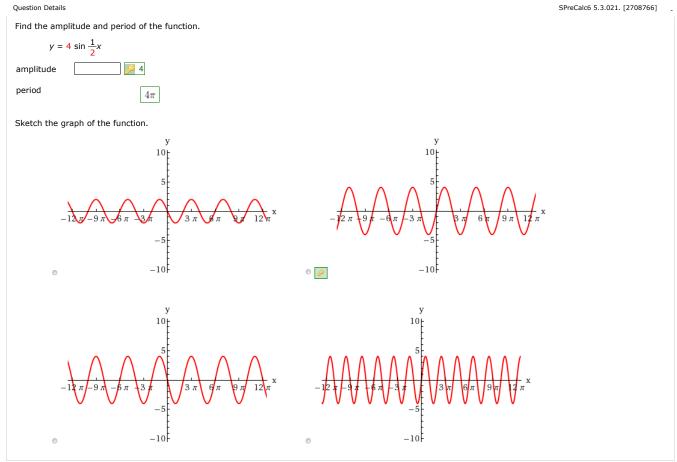
10. Question Details

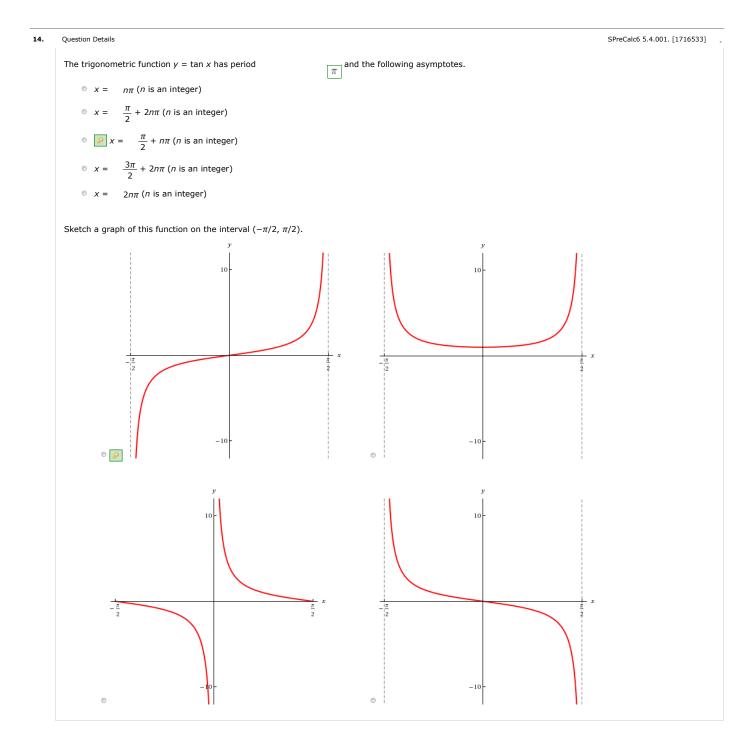




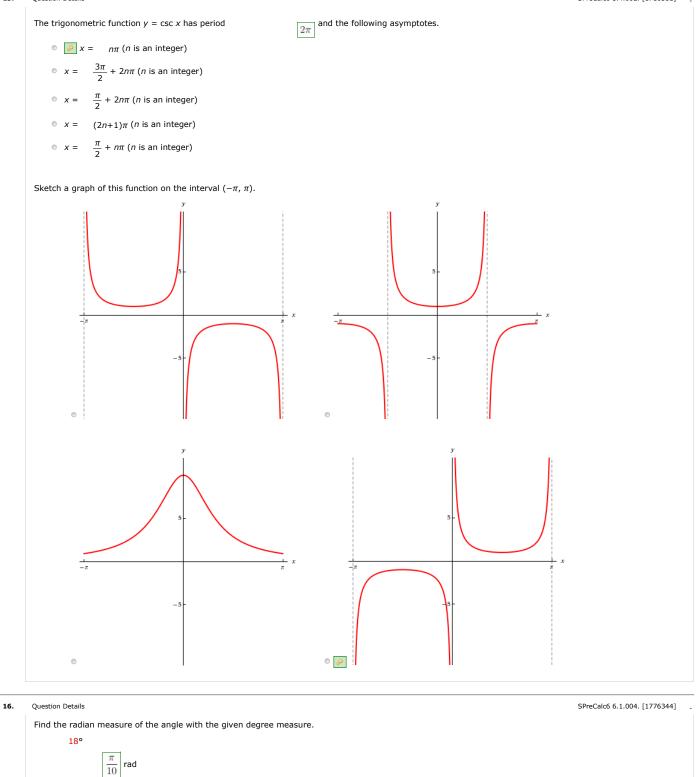


13. Question Details









17. Question Details

Find the degree measure of the angle with the given radian measure.

 $\frac{\pi}{6}$

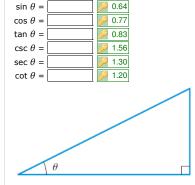
SPreCalc6 6.1.015. [1776296]

19π	7π	17π	29π
6,-	$\frac{1}{6}$,	6	6

20.	Question Details	SPreCalc6 6.2.033. [2748536]	
	Solve the right triangle.		
	47°		
	Find the length of the side opposite to the given angle. (Round your answer to two decimal places.)		
	Find the length of the hypotenuse. (Round your answer to two decimal places.)		
	Find the other acute angle.		

21. Question Details

SPreCalc6 6.2.039. [1762588]



22. Question Details

Find the quadrant in which θ lies from the information given. $\tan \theta < 0$ and $\sin \theta > 0$ • I • \square II

IIIIV

SPreCalc6 6.3.036.MI. [2678450]

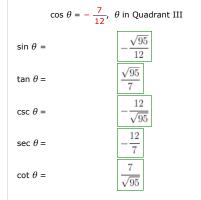
23. Question Details

Find the values of the six trigonometric functions of θ with the given constraint.

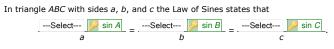
Constraint $ heta$ lies in Quadrant III

24. Question Details

Find the values of the trigonometric functions of $\boldsymbol{\theta}$ from the information given.

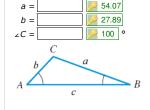


25. Question Details



26. Question Details

Solve the triangle using the Law of Sines. (Assume c = 65, $\angle A = 55^{\circ}$, and $\angle B = 25^{\circ}$. Round lengths to two decimal places.) *)* 54.07



27. Question Details SPreCalc6 6.5.010.MI. [2678462]

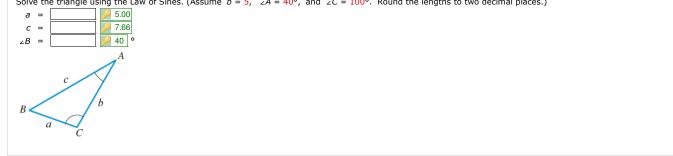
SPreCalc6 6.3.045-052.501.XP.MI. [1870975]

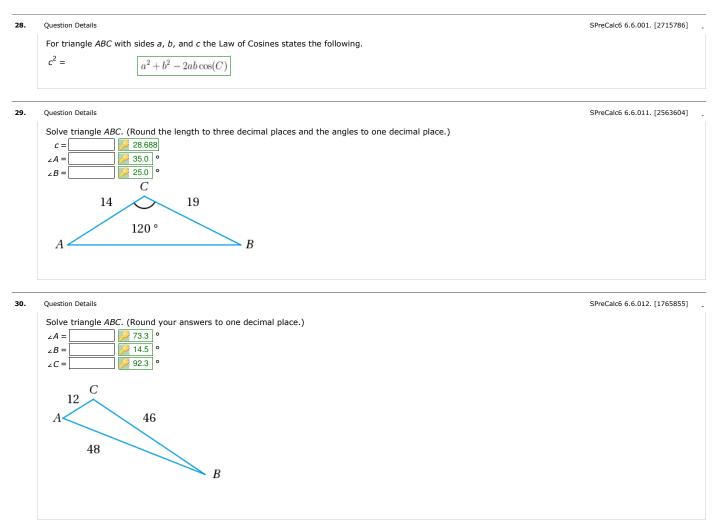
SPreCalc6 6.3.046. [2708293]

SPreCalc6 6.5.001. [1763555]

SPreCalc6 6.5.009. [1763578]







Assignment Details