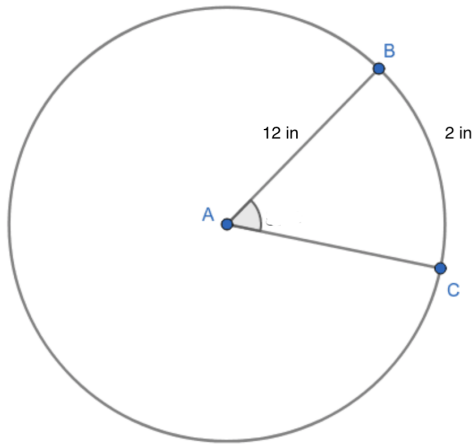


Calculus & Trigonometry

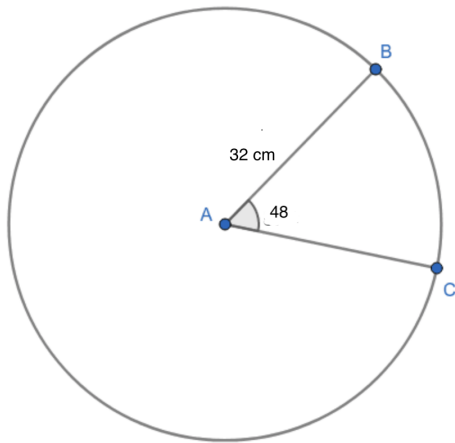
Chapter 4 & 5 Pre-Test

1.) (10 pts total, 5 pts each) Find the measure of the indicated arc or angle.

a) Find $m\angle BAC$



b) Find arc BC



2.) (10 pts total, 2.5 pts each) Convert each angle measure as indicated.

a) $225^\circ = \underline{\hspace{2cm}} \pi$

b) $7\pi/6 = \underline{\hspace{2cm}}^\circ$

c) $580^\circ = \underline{\hspace{2cm}}$

d) $11\pi/4 = \underline{\hspace{2cm}}^\circ$

3.) (10 pts total, 2 pts each) Provide each of the indicated trigonometric ratios.

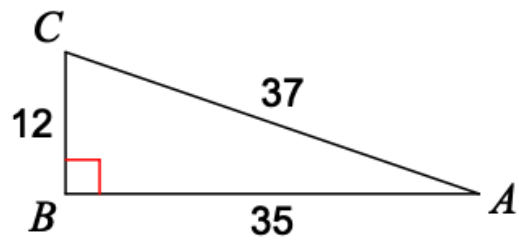
a) $\cos A$

b) $\sec C$

c) $\csc A$

d) $\tan C$

e) $\sin C$

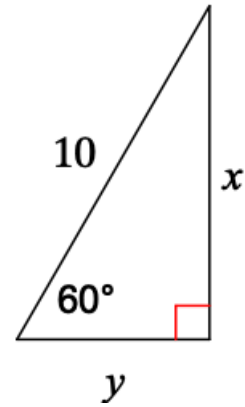


4.) (10 pts total, 2.5 pts each) Solve using special triangles. Please express your answer in radical form.

a)

$x =$

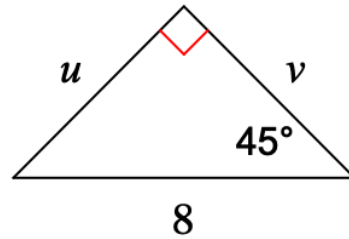
$y =$



b)

$u =$

$v =$



5.) (20 pts total, 2 pts each) Provide the value of each. Express in radical form if applicable.

a) $\cos 120^\circ$

b) $\sin 5\pi/6$

c) $\tan 7\pi/4$

d) $\cos 11\pi/6$

e) $\csc 270^\circ$

f) $\sec 3\pi/4$

g) $\sin 315^\circ$

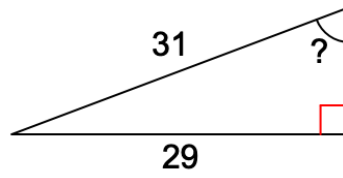
h) $\cot 30^\circ$

i) $\sec 4\pi/3$

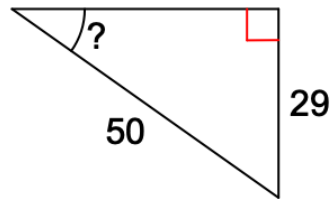
j) $\cot \pi/2$

6.) (10 pts total, 2.5 pts each) Solve for the indicated variable.

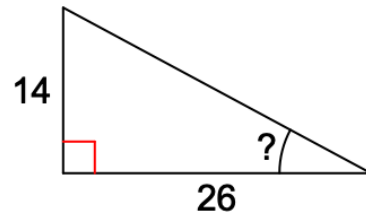
a)



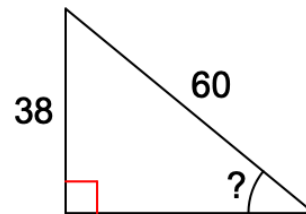
b)



c)

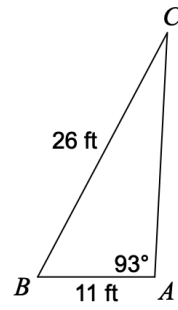


d)

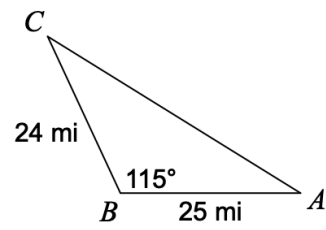


7.) (10 pts total, 5 pts each)

a) Find $m\angle C$.

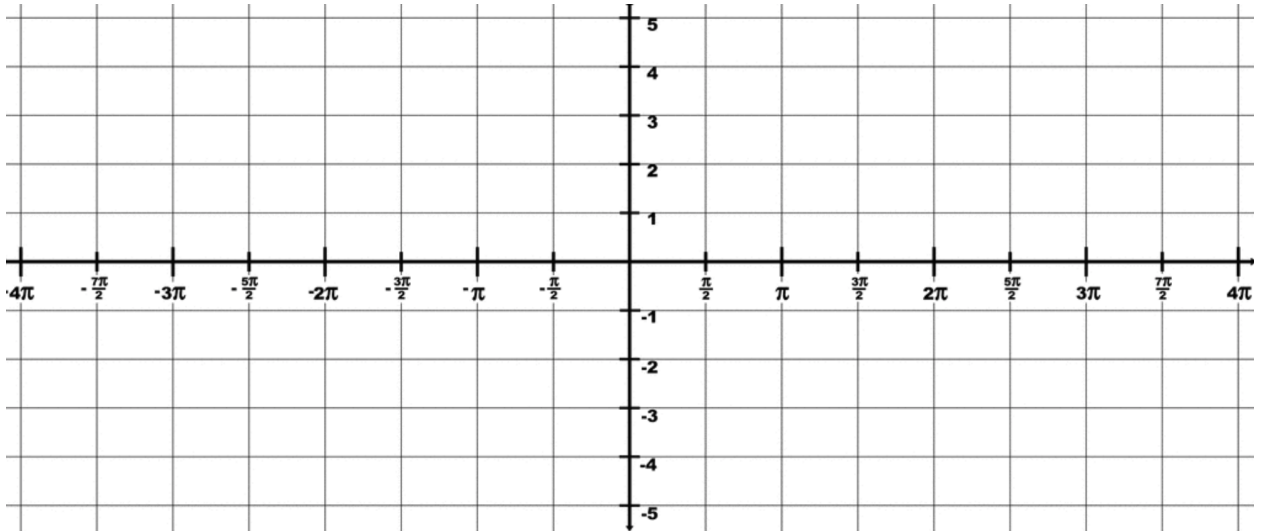


b) Find AC .



8.) (20 pts total, 10 pts each) Graph each of the following trig functions.

a) $y = 2\sin(1/2x - \pi/4) + 3$



b) $y = 3\cos(2x + 3\pi/4) - 1$

