

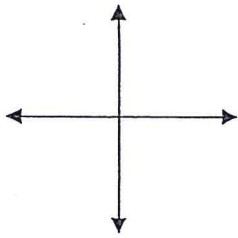
CHAPTER 9 REVIEW

Name _____
 Period _____ Date _____

1. Use the given information to find each value:
 $\sin u = 3/5$, $\pi/2 < u < \pi$ and

FIND ALL (5) EXACT VALUES.
 OF THE TRIG FUNCTIONS

2. The point $(-15, -10)$ is on the terminal ray of the angle θ in standard position. Approximate θ and find the exact value of all six trigonometric functions



④ θ (to the hundredth of a degree) \approx

④ $\sin \theta =$	④ $\cos \theta =$	④ $\tan \theta =$
④ $\csc \theta =$	④ $\sec \theta =$	④ $\cot \theta =$

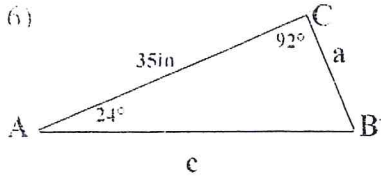
FIND THE EXACT VALUE OF EACH:

3) $\cos 285^\circ$

4) $\sin 23\pi/12$

5) $\tan 11\pi/12$

Use the Law of Sines to find each value for the given triangle



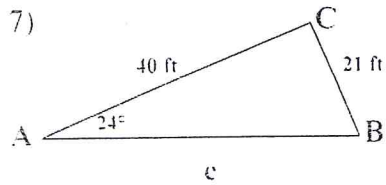
Measure of $\angle B$: _____

Length of side a: _____

Length of side c: _____

FIND THE AREA OF $\triangle ABC$ _____

Use the Law of Sines to find each value for *ALL POSSIBLE* triangles



First Solution

Measure of $\angle B$: _____

Measure of $\angle C$: _____

Length of side c: _____

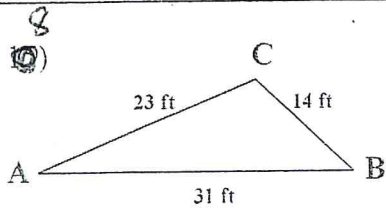
Second Solution

Measure of $\angle B$: _____

Measure of $\angle C$: _____

Length of side c: _____

Use the Law of Cosines to find each value for the given triangle.

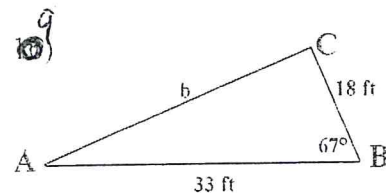


Measure of $\angle A$: _____

Measure of $\angle B$: _____

Measure of $\angle C$: _____

Use the Law of Cosines to find each value for the given triangle, then find the area of the triangle.



Length of side b: _____

Measure of $\angle A$: _____

Measure of $\angle C$: _____

10) Find the area of $\triangle ABC$

Area of $\triangle ABC$: _____

Name _____

Simplifying Trig. Expressions Using Identities

Show your work on a separate sheet of paper. Attach your work paper to the back of this sheet. Write your response on the line provided for each problem.

Verify the identity.

(1) $\tan(-x) \cos(x)$

(1) _____

(2) $\sec(-x) \frac{\sin(-x)}{\tan(x)}$

(2) _____

Simplify.

(3) $\tan x(\csc x - \sin x)$

(3) _____

(4) $(\csc x - 1)(\csc x + 1)$

(4) _____

(5) $(\sec x - \tan x)(\sec x + \tan x)$

(5) _____

(6) $(1 + \tan^2 x)(1 - \sin^2 x)$

(6) _____

(7) $\cos x (\csc x - \sec x) - \cot x$

(7) _____

(8) $\sin^2 x(\cot^2 x + 1)$

(8) _____

(9) $\sin^2 x + \sin^2 x \cot^2 x$

(9) _____

(10) $\cot x \sec x \sin x$

(10) _____