

CHAPTER 13

TRIGONOMETRY

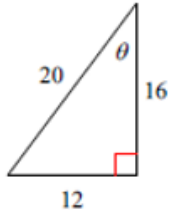
PRACTICE ASSIGNMENTS

Intermediate ALGEBRA 2

Name: _____ HR: _____

Concept 1: Trig Ratios

1)

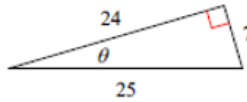


$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

2)

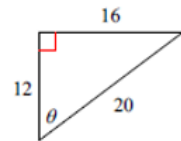


$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

3)

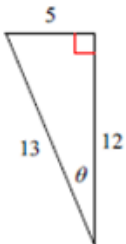


$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

4)

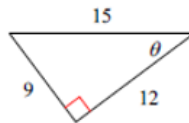


$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

5)

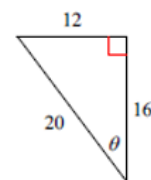


$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

6)



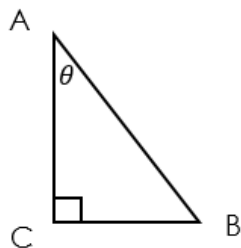
$$\sin \theta =$$

$$\cos \theta =$$

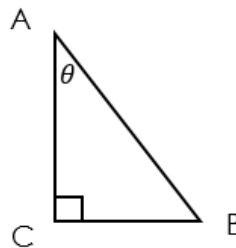
$$\tan \theta =$$

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

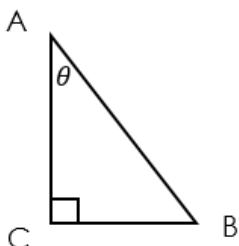
7) Find $\sin A$ if $b = 8$, $a = 15$, $c = 17$



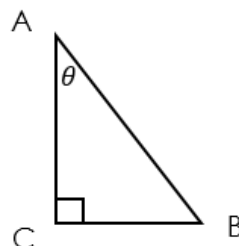
8) Find $\cos A$ if $a = 12$, $b = 5$, $c = 13$



9) Find $\tan A$ if $c = 17$, $b = 8$, $a = 15$



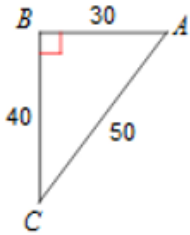
10) Find $\sin A$ if $c = 10$, $a = 8$, $b = 6$



Concept 2:

Find the value of each trigonometric ratio to the nearest ten-thousandth.

11) $\cos A$



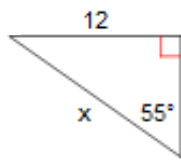
12) $\cos 17^\circ$

13) $\tan 69^\circ$

14) $\tan 53^\circ$

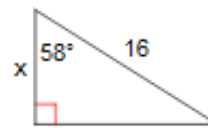
Find the missing side. Round to the nearest tenth.

15)



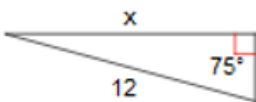
Know: }
Need: } Use:

16)



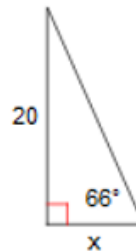
Know: }
Need: } Use:

17)



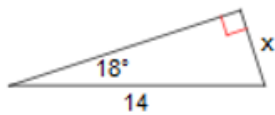
Know: }
Need: } Use:

18)



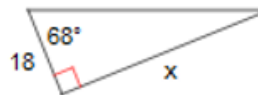
Know: }
Need: } Use:

19)



Know: }
Need: } Use:

20)



Know: }
Need: } Use:

Concept 3:

Find each angle measure to the nearest degree.

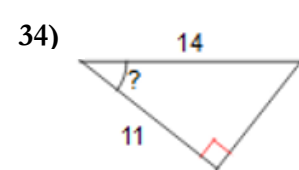
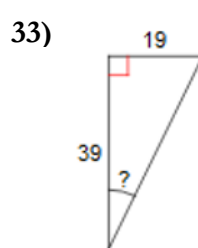
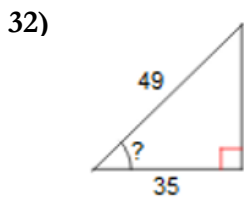
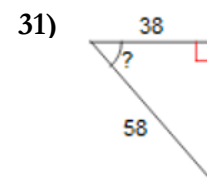
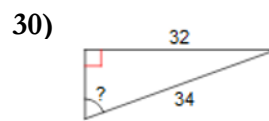
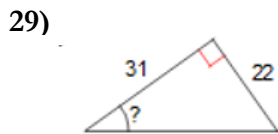
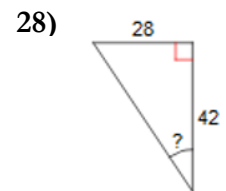
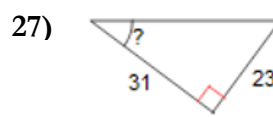
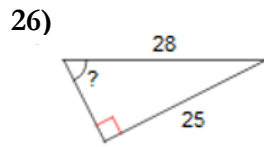
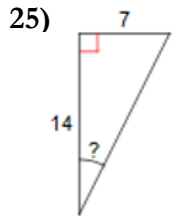
21) $\sin X = 0.9816$

22) $\tan C = 0.8693$

23) $\cos V = 0.8829$

24) $\tan V = 2.2460$

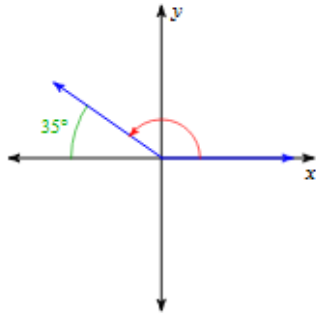
Find the measure of the indicated angle to the nearest degree.



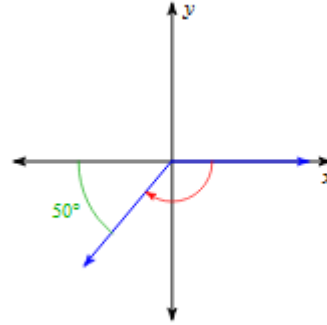
Concept 4:

Find the measure of each angle.

35)

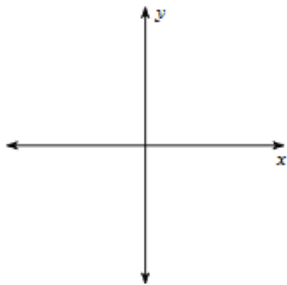


36)

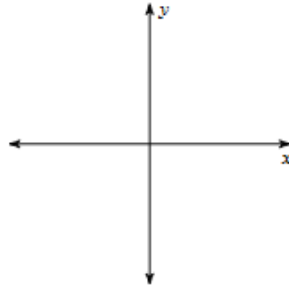


Draw an angle with the given measure in standard position.

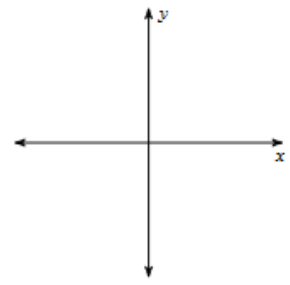
37) 270°



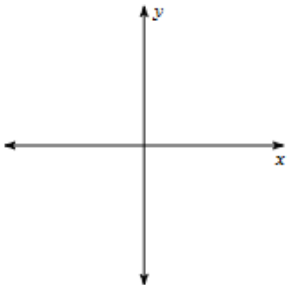
38) -305°



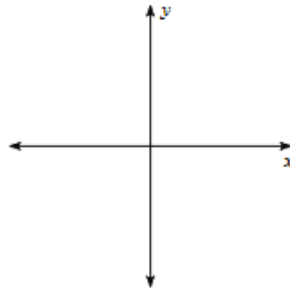
39) 125°



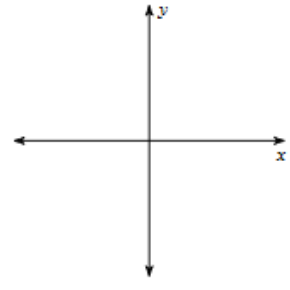
40) -50°



41) -140°

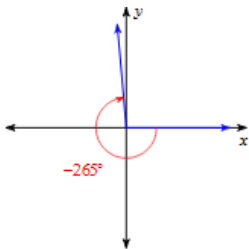


42) 140°

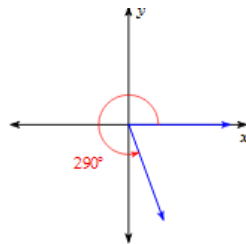


Find the reference angle.

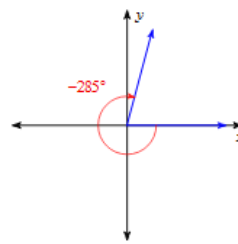
43)



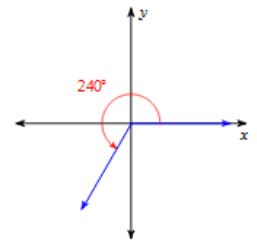
44)



45)



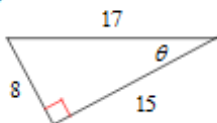
46)



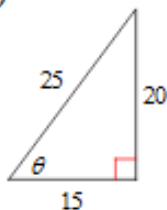
Chapter 13 Practice Test

Find the value of the trig function indicated.

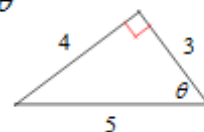
1) $\cos \theta$



2) $\tan \theta$



3) $\sin \theta$



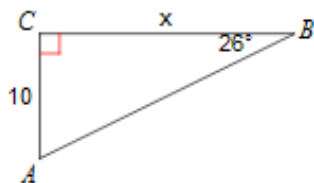
Use a calculator to find each. Round your answers to the nearest tenth.

4) $\tan 225^\circ$

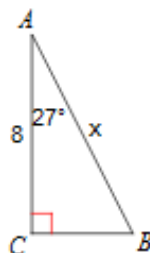
5) $\cos 56^\circ$

Find the measure of each side indicated. Round to the nearest tenth.

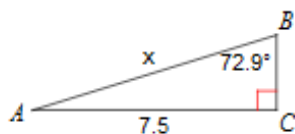
6)



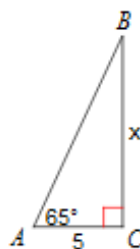
7)



8)

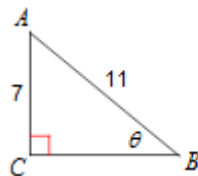


9)

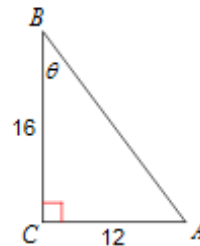


Find the measure of each angle indicated. Round to the nearest tenth.

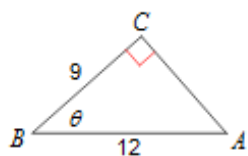
10)



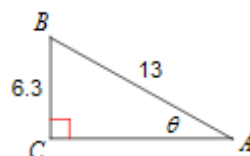
11)



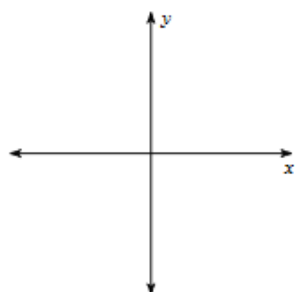
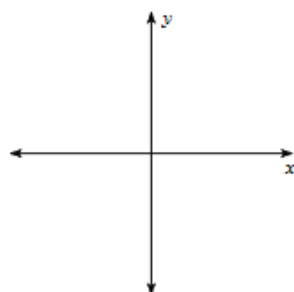
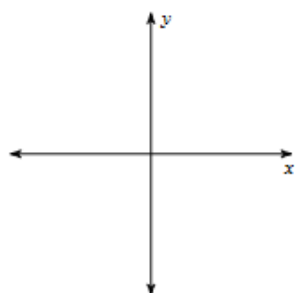
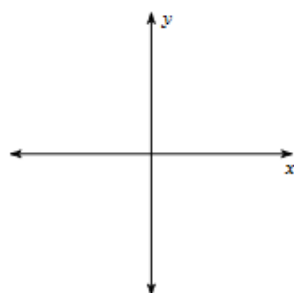
12)



13)

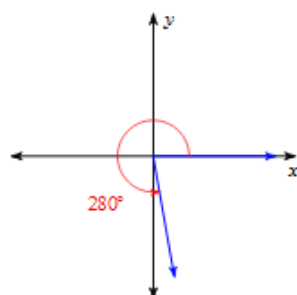


Draw an angle with the given measure in standard position.

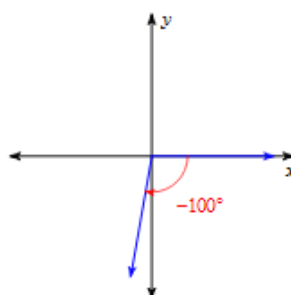
14) 65° 15) 105° 16) -85° 17) 250° 

Find the reference angle.

18)



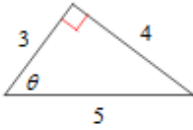
19)



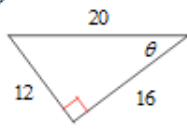
Extra Trig Review

Find the value of the trig function indicated.

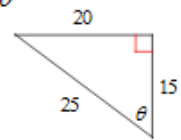
1. $\tan \theta$



2. $\cos \theta$

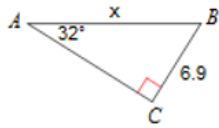


3. $\sin \theta$

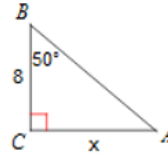


Find the measure of each side indicated. Round to the nearest tenth.

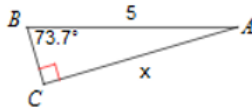
4)



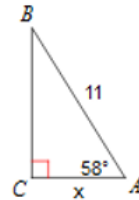
5)



6)

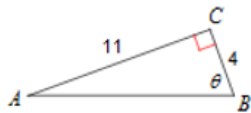


7)

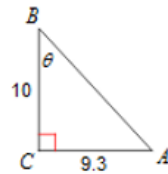


Find the measure of each angle indicated. Round to the nearest tenth.

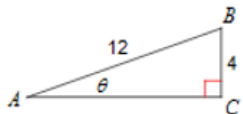
8)



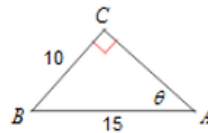
9)



10)

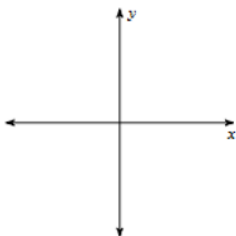


11)

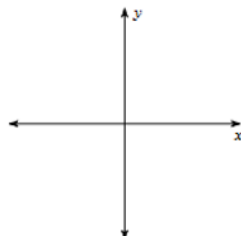


Draw an angle with the given measure in standard position.

12) -80°

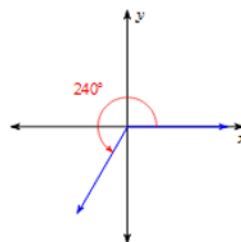


13) -5°



Find the reference angle.

14)



15)

