

Assignment

Date _____ Period _____

Find the exact value of each trigonometric function.

1) $\csc \frac{5\pi}{4}$

2) $\sin -\frac{3\pi}{4}$

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

4) $\cot \pi$

5) $\sin -\frac{3\pi}{2}$

6) $\csc -\frac{5\pi}{6}$

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

8) $\sec -\frac{5\pi}{3}$

9) $\csc \frac{11\pi}{6}$

10) $\cot \frac{3\pi}{4}$

11) $\sec -\frac{\pi}{6}$

12) $\sin -\frac{5\pi}{3}$

$$13) \sec -\frac{\pi}{3}$$

$$14) \sec 0$$

$$15) \sin -\frac{2\pi}{3}$$

$$16) \csc -\frac{3\pi}{2}$$

$$17) \cos \frac{\pi}{4}$$

$$18) \tan \frac{4\pi}{3}$$

$$19) \cot \frac{\pi}{2}$$

$$20) \cos \frac{2\pi}{3}$$

$$21) \cot \frac{5\pi}{3}$$

$$22) \csc \pi$$

$$23) \sec -\frac{4\pi}{3}$$

$$24) \sec \pi$$

$$25) \tan -\frac{3\pi}{2}$$

$$26) \sin \frac{4\pi}{3}$$

$$27) \sec \frac{7\pi}{4}$$

$$28) \sec -\frac{11\pi}{6}$$

$$29) \sin \frac{2\pi}{3}$$

$$30) \cos -\frac{5\pi}{4}$$

$$31) \tan -\frac{4\pi}{3}$$

$$32) \sin \frac{7\pi}{4}$$

$$33) \tan \frac{\pi}{4}$$

$$34) \csc \frac{\pi}{3}$$

$$35) \tan \frac{5\pi}{4}$$

$$36) \cos -\frac{5\pi}{3}$$

$$37) \sin -\pi$$

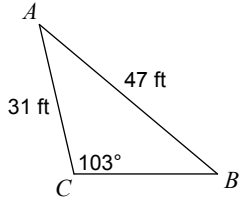
$$38) \cot \frac{5\pi}{4}$$

$$39) \tan -\frac{\pi}{6}$$

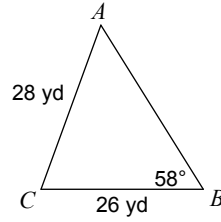
$$40) \tan -\frac{2\pi}{3}$$

Find each measurement indicated. Round your answers to the nearest tenth.

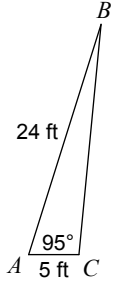
41) Find $m\angle B$



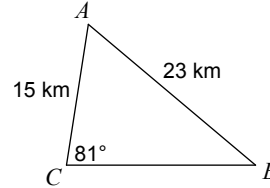
42) Find $m\angle A$



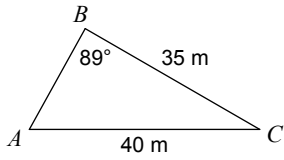
43) Find $m\angle B$



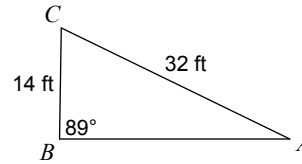
44) Find $m\angle B$



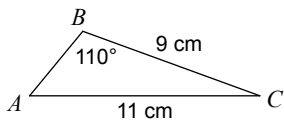
45) Find $m\angle A$



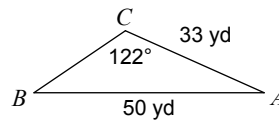
46) Find $m\angle A$



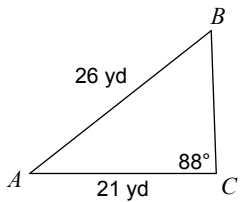
47) Find $m\angle A$



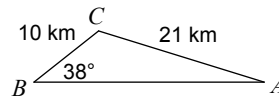
48) Find $m\angle B$



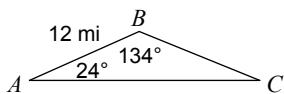
49) Find $m\angle B$



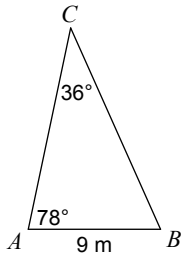
50) Find $m\angle A$



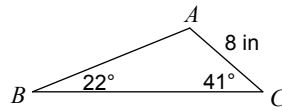
51) Find AC



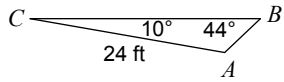
52) Find BC



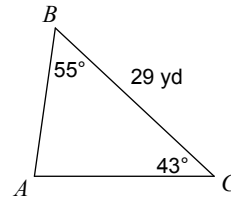
53) Find AB



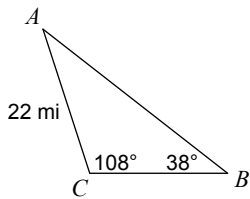
54) Find AB



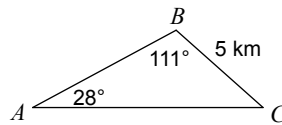
55) Find AB



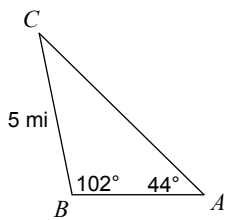
56) Find AB



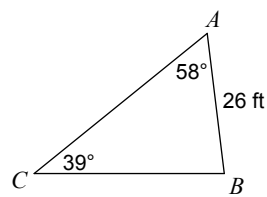
57) Find AC



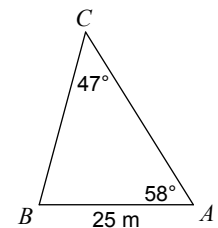
58) Find AC



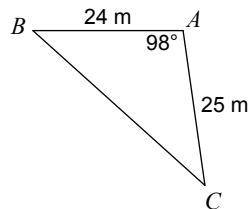
59) Find BC



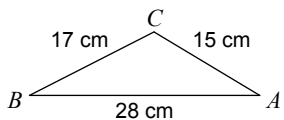
60) Find BC



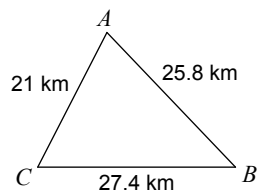
61) Find $m\angle B$



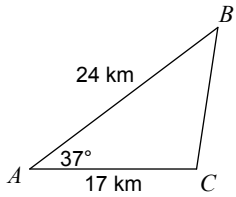
62) Find $m\angle B$



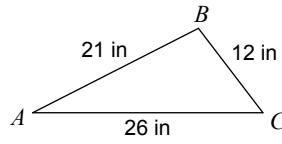
63) Find $m\angle A$



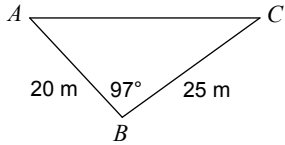
64) Find $m\angle B$



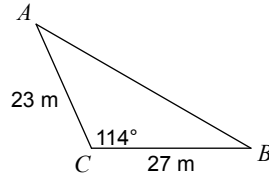
65) Find $m\angle B$



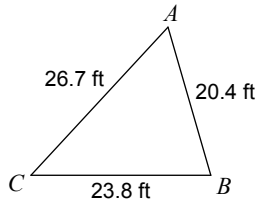
66) Find $m\angle C$



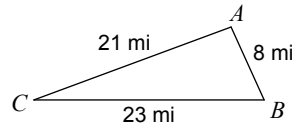
67) Find $m\angle A$



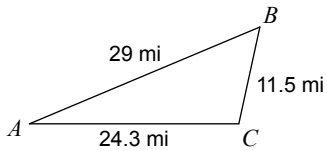
68) Find $m\angle B$



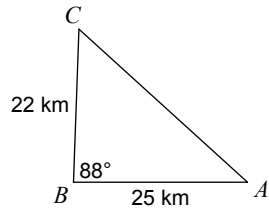
69) Find $m\angle C$



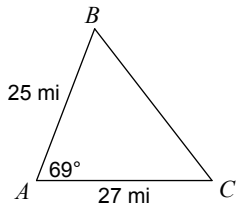
70) Find $m\angle A$



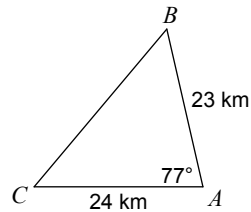
71) Find AC



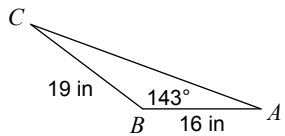
72) Find BC



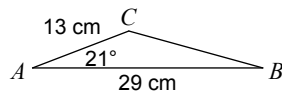
73) Find BC



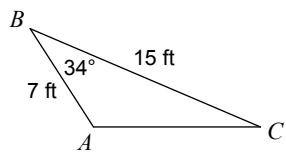
74) Find AC



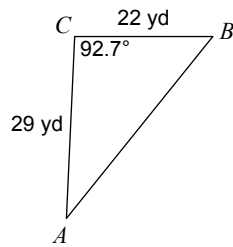
75) Find BC



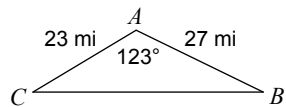
76) Find AC



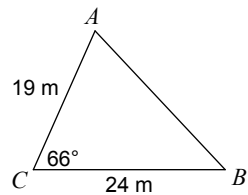
77) Find AB



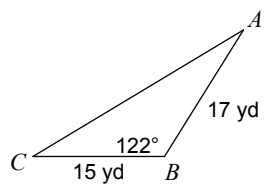
78) Find BC



79) Find AB



80) Find AC



Assignment

Date _____ Period _____

Find the exact value of each trigonometric function.

1) $\csc \frac{5\pi}{4}$

$-\sqrt{2}$

2) $\sin -\frac{3\pi}{4}$

$-\frac{\sqrt{2}}{2}$

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

$-\sqrt{2}$

4) $\cot \pi$

Undefined

5) $\sin -\frac{3\pi}{2}$

1

6) $\csc -\frac{5\pi}{6}$

-2

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

-1

8) $\sec -\frac{5\pi}{3}$

2

9) $\csc \frac{11\pi}{6}$

-2

10) $\cot \frac{3\pi}{4}$

-1

11) $\sec -\frac{\pi}{6}$

$\frac{2\sqrt{3}}{3}$

12) $\sin -\frac{5\pi}{3}$

$\frac{\sqrt{3}}{2}$

$$13) \sec -\frac{\pi}{3}$$

2

$$14) \sec 0$$

1

$$15) \sin -\frac{2\pi}{3}$$

$-\frac{\sqrt{3}}{2}$

$$16) \csc -\frac{3\pi}{2}$$

1

$$17) \cos \frac{\pi}{4}$$

$\frac{\sqrt{2}}{2}$

$$18) \tan \frac{4\pi}{3}$$

$\sqrt{3}$

$$19) \cot \frac{\pi}{2}$$

0

$$20) \cos \frac{2\pi}{3}$$

$-\frac{1}{2}$

$$21) \cot \frac{5\pi}{3}$$

$-\frac{\sqrt{3}}{3}$

$$22) \csc \pi$$

Undefined

$$23) \sec -\frac{4\pi}{3}$$

-2

$$24) \sec \pi$$

-1

$$25) \tan -\frac{3\pi}{2}$$

Undefined

$$26) \sin \frac{4\pi}{3}$$

$-\frac{\sqrt{3}}{2}$

$$27) \sec \frac{7\pi}{4}$$

$$\sqrt{2}$$

$$28) \sec -\frac{11\pi}{6}$$

$$\frac{2\sqrt{3}}{3}$$

$$29) \sin \frac{2\pi}{3}$$

$$\frac{\sqrt{3}}{2}$$

$$30) \cos -\frac{5\pi}{4}$$

$$-\frac{\sqrt{2}}{2}$$

$$31) \tan -\frac{4\pi}{3}$$

$$-\sqrt{3}$$

$$32) \sin \frac{7\pi}{4}$$

$$-\frac{\sqrt{2}}{2}$$

$$33) \tan \frac{\pi}{4}$$

$$1$$

$$34) \csc \frac{\pi}{3}$$

$$\frac{2\sqrt{3}}{3}$$

$$35) \tan \frac{5\pi}{4}$$

$$1$$

$$36) \cos -\frac{5\pi}{3}$$

$$\frac{1}{2}$$

$$37) \sin -\pi$$

$$0$$

$$38) \cot \frac{5\pi}{4}$$

$$1$$

$$39) \tan -\frac{\pi}{6}$$

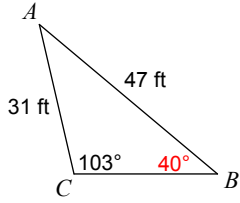
$$-\frac{\sqrt{3}}{3}$$

$$40) \tan -\frac{2\pi}{3}$$

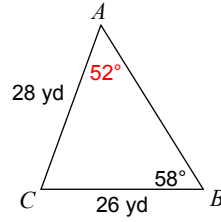
$$\sqrt{3}$$

Find each measurement indicated. Round your answers to the nearest tenth.

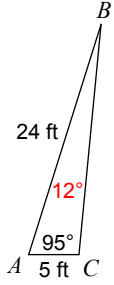
41) Find $m\angle B$



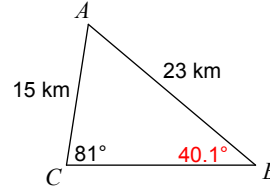
42) Find $m\angle A$



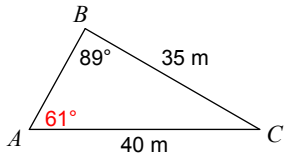
43) Find $m\angle B$



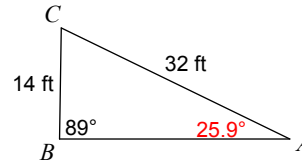
44) Find $m\angle B$



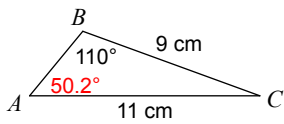
45) Find $m\angle A$



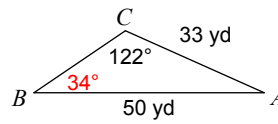
46) Find $m\angle A$



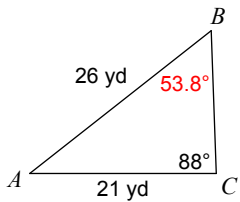
47) Find $m\angle A$



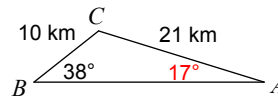
48) Find $m\angle B$



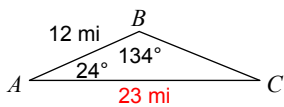
49) Find $m\angle B$



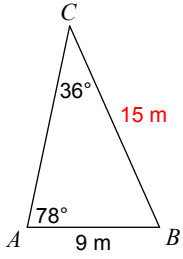
50) Find $m\angle A$



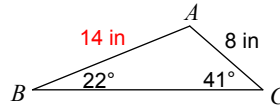
51) Find AC



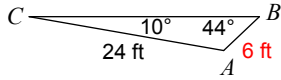
52) Find BC



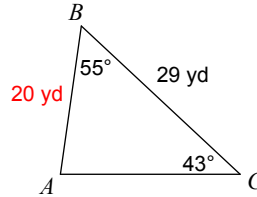
53) Find AB



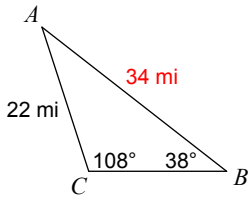
54) Find AB



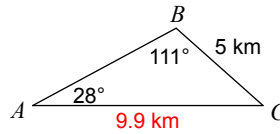
55) Find AB



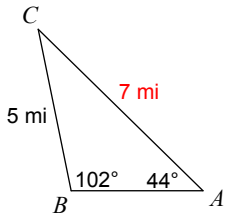
56) Find AB



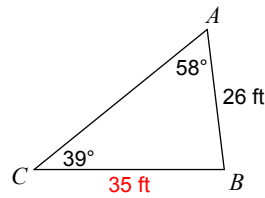
57) Find AC



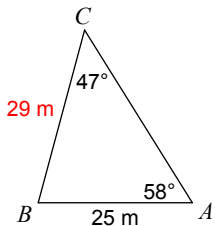
58) Find AC



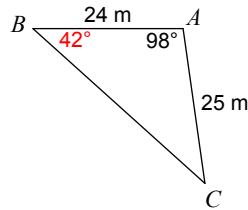
59) Find BC



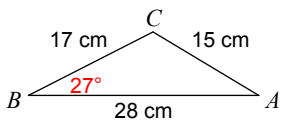
60) Find BC



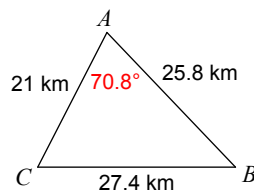
61) Find $m\angle B$



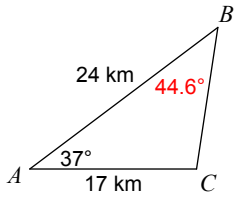
62) Find $m\angle B$



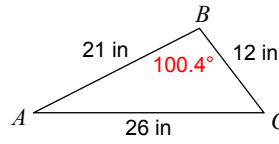
63) Find $m\angle A$



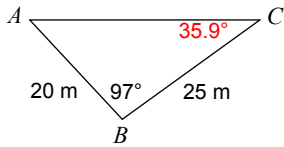
64) Find $m\angle B$



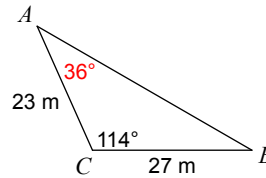
65) Find $m\angle B$



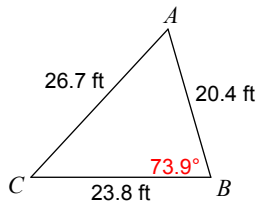
66) Find $m\angle C$



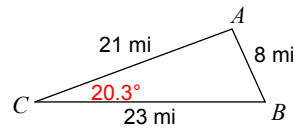
67) Find $m\angle A$



68) Find $m\angle B$



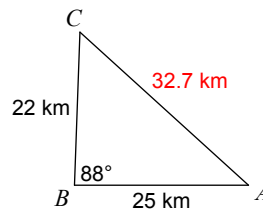
69) Find $m\angle C$



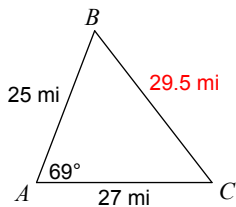
70) Find $m\angle A$



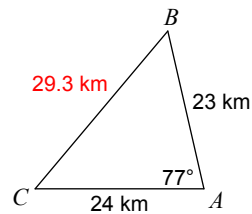
71) Find AC



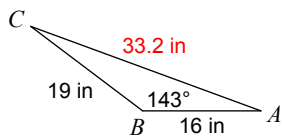
72) Find BC



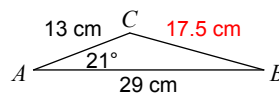
73) Find BC



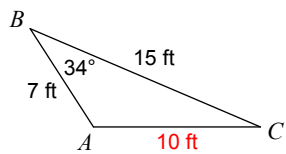
74) Find AC



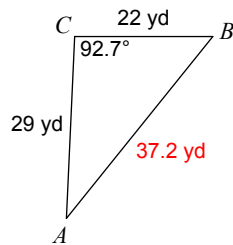
75) Find BC



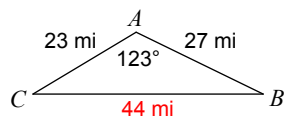
76) Find AC



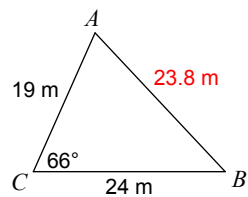
77) Find AB



78) Find BC



79) Find AB



80) Find AC

