

Unit 9 Analytical Trig Review

Find a positive and a negative coterminal angle for each given angle.

1) 30°

2) -240°

3) -220°

4) -15°

Find a coterminal angle between 0° and 360° .

5) 850°

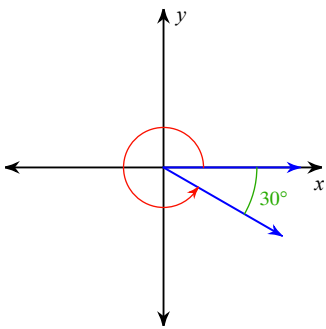
6) 505°

7) -84°

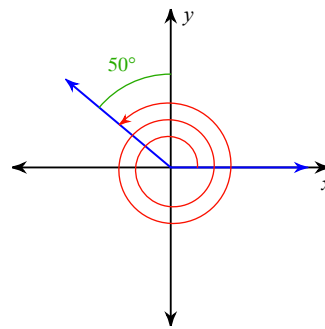
8) 685°

Find the measure of each angle.

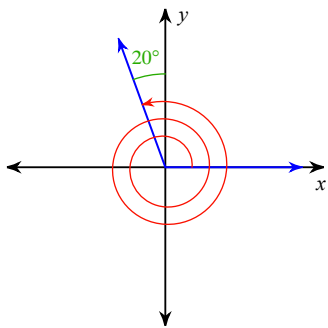
9)



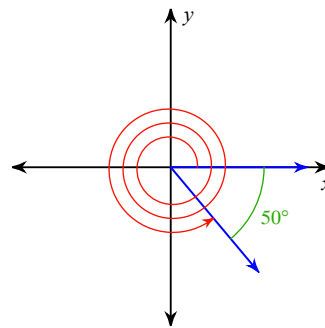
10)



11)

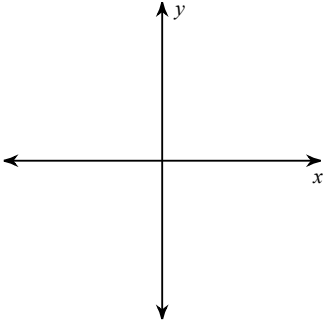


12)

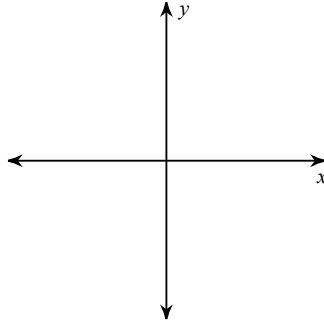


Draw an angle with the given measure in standard position.

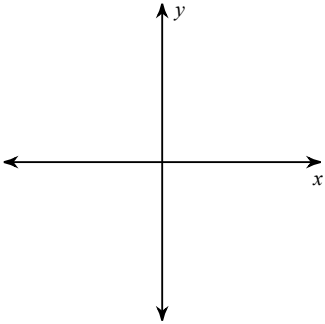
13) -325°



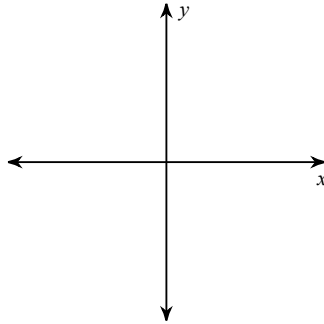
14) -705°



15) 320°



16) 670°



Convert each degree measure into radians and each radian measure into degrees.

17) $\frac{14\pi}{9}$

18) $\frac{11\pi}{6}$

19) 120°

20) $\frac{\pi}{4}$

21) 195°

22) 0°

Find the exact value of each trigonometric function.

23) $\tan -135^\circ$

24) $\cos 210^\circ$

25) $\cos -135^\circ$

26) $\sin 180^\circ$

27) $\tan -150^\circ$

28) $\sin 45^\circ$

29) $\tan -\frac{5\pi}{6}$

30) $\sin \frac{5\pi}{3}$

31) $\cos \frac{\pi}{2}$

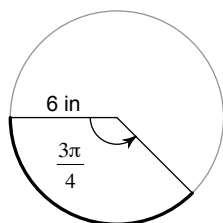
32) $\sin -\frac{2\pi}{3}$

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

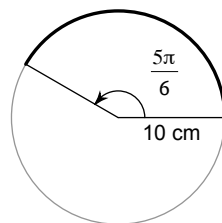
34) $\cos -\frac{3\pi}{4}$

Find the length of each arc.

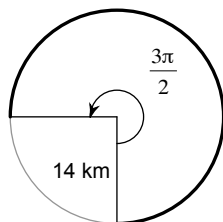
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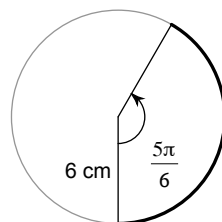
36)



37)

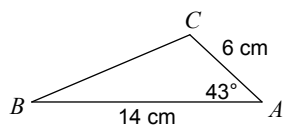


38)

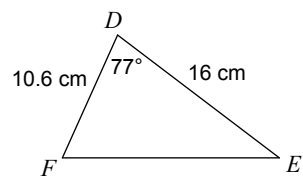


Find the area of each triangle to the nearest tenth.

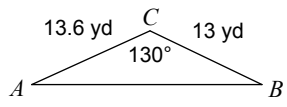
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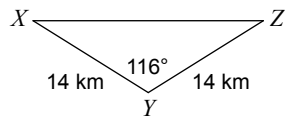
40)



41)

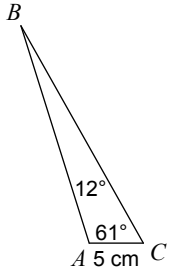


42)

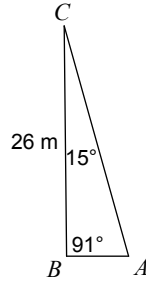


Find each measurement indicated. Round your answers to the nearest tenth.

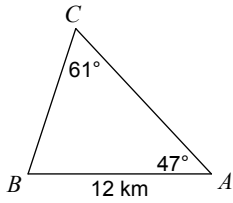
43) Find AB



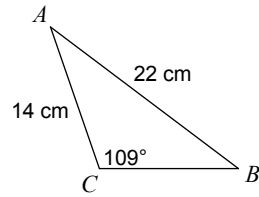
44) Find AB



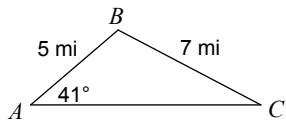
45) Find BC



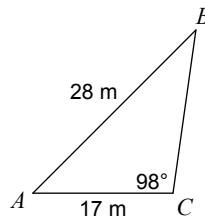
46) Find $m\angle B$



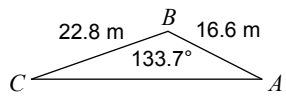
47) Find $m\angle C$



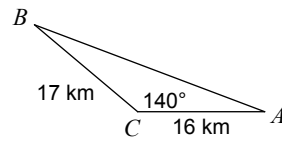
48) Find $m\angle B$



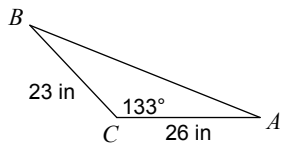
49) Find AC



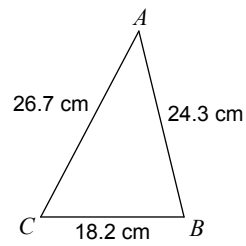
50) Find AB



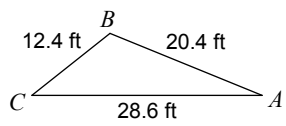
51) Find AB



52) Find $m\angle C$



53) Find $m\angle C$



54) Find $m\angle A$

