

Q3HW5

Find a coterminal angle between 0° and 360° .

1) 668°

Find a coterminal angle between 0 and 2π for each given angle.

2) 3π

Find the reference angle.

3) 400°

4) $\frac{7\pi}{3}$

Convert each degree measure into radians.

5) 1020°

6) 420°

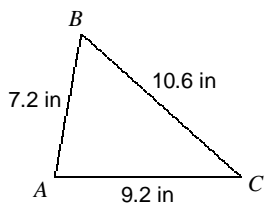
Convert each radian measure into degrees.

7) $\frac{\pi}{3}$

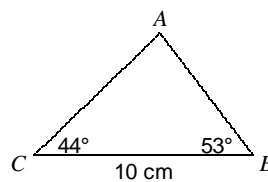
8) $\frac{\pi}{4}$

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

9) Find $m\angle B$



10) Find AB



11) $b = 25$ km, $m\angle C = 137^\circ$, $a = 29$ km
Find c

Use the Law of Cosines to find each measurement indicated. Round your answers to the nearest tenth.

12) $m\angle B = 42^\circ$, $a = 22$, $b = 21$

Find c

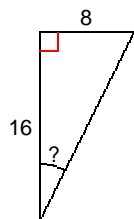
Find the exact value of each trigonometric function.

13) $\sec -600^\circ$

14) $\sin -60^\circ$

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

15)



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

16) 102°

17) $\frac{5\pi}{6}$

Find the area of each triangle to the nearest tenth.

18) In $\triangle STR$, $m\angle T = 20^\circ$, $r = 11$ yd, $m\angle S = 132^\circ$

Simplify:

$\text{let } q = \theta$

19) $\cos q \csc q$

20) $1 - \cos q \cos q$