4960 miles

Give the quadrant in which the terminal side of the angle lies if $\theta=2.4$

Quadrant II

Give a positive and negative cotterminal angle for $\frac{11\pi}{6}$

$$\frac{23\pi}{6}$$
, $-\frac{\pi}{6}$

Give a positive and negative cotterminal angle for $-\frac{5\pi}{6}$

$$\frac{7\pi}{6}$$
, $-\frac{17\pi}{6}$

Give the complement and supplement of $\frac{2\pi}{21}$

$$\frac{17\pi}{42}$$
, $\frac{19\pi}{21}$

Convert to decimal degrees (to the nearest thousandth): 135° 16′ 45"

185.279°

Convert to DMS (to the nearest second): 185.29°

185° 17′ 24″

Convert to radians (to the nearest thousandth): 94°

1.641

Convert to radians (to the nearest thousandth): -72°

-1.257

Convert to degrees (to the nearest thousandth): $\frac{5\pi}{2}$

128.571°

Convert to degrees:
$$\frac{3\pi}{5}$$

108°

Find the radian measure of the central angle of a circle with a radius of 12 ft that intercepts an arc of length 25 ft. Round to the nearest thousandth.

2.083

Find the exact value of the length of the arc on a circle with a radius of 20 feet intercepted by a central angle of 188°.

$$\frac{46\pi}{3}$$
 feet

Find the length (to the nearest thousandth) of the arc on a circle with a radius of 15 feet intercepted by a central angle of 60°.

15.708 feet

Determine the north-south distance (to the nearest mile) from Perth, Australia, which has latitude of 31°58' S to Beijing, China, which has a latitude of 39°5' N. Assume the earth is a sphere with radius 4,000 miles.