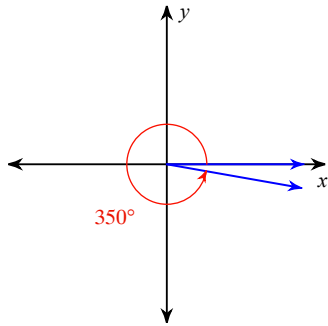


Midterm Review #4 (Trig Part 1)

Date _____ Period _____

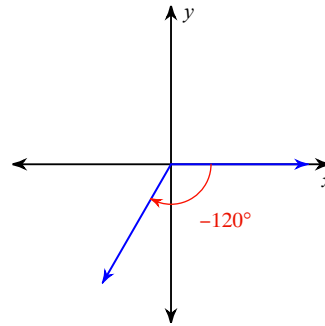
Find the reference angle.

1)



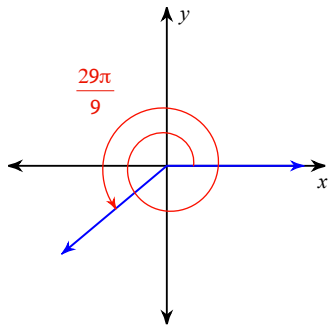
- A) 65° B) 10°
 C) 5° D) 75°

2)



- A) 20° B) 60°
 C) 5° D) 55°

3)



- A) $\frac{2\pi}{9}$ B) $\frac{17\pi}{36}$
 C) $\frac{13\pi}{36}$ D) $\frac{5\pi}{18}$

Convert each degree measure into radians and each radian measure into degrees.4) -165°

- A) $-\frac{35\pi}{18}$ B) $-\frac{11\pi}{12}$
 C) $-\frac{17\pi}{18}$ D) $-\frac{8\pi}{9}$

5) 300°

- A) $\frac{17\pi}{9}$ B) $\frac{5\pi}{3}$
 C) $\frac{61\pi}{36}$ D) $\frac{3\pi}{2}$

6) 165°

- A) $\frac{8\pi}{9}$ B) $\frac{35\pi}{18}$
C) $\frac{11\pi}{6}$ D) $\frac{11\pi}{12}$

Convert each decimal degree measure into degrees-minutes-seconds and each degrees-minutes-seconds into decimal degrees.

7) 0.5325°

- A) $0^\circ 2' 51''$ B) $0^\circ 59' 51''$
C) $0^\circ 31' 57''$ D) $0^\circ 11' 51''$

8) 194.39°

- A) $194^\circ 28' 12''$
B) $194^\circ 24' 36''$
C) $194^\circ 11' 24''$
D) $194^\circ 23' 24''$

9) $-222^\circ 52' 48''$

- A) -222.9025° B) -222.88°
C) -222.3725° D) -222.485°

State if the given angles are coterminal.

10) $220^\circ, 320^\circ$

- A) Yes B) No

11) $100^\circ, 460^\circ$

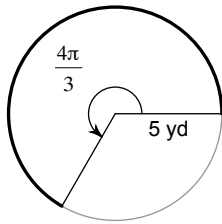
- A) Yes B) No

12) $60^\circ, -300^\circ$

- A) No B) Yes

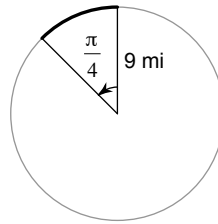
Find the length of each arc. Round your answers to the nearest tenth.

13)



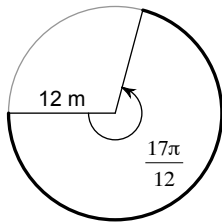
- A) 52.4 yd B) 487.5 yd
C) 2714336.1 yd D) 20.9 yd

14)



- A) 7.1 mi B) 34.8 mi
C) 31.8 mi D) 5.2 mi

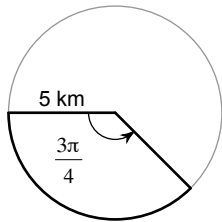
15)



- A) 65.4 m B) 53.4 m
C) 2.1 m D) 37.7 m

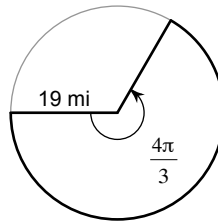
Find the area of each sector. Round your answers to the nearest tenth.

16)



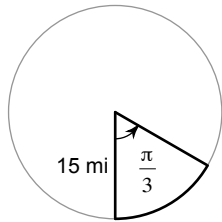
- A) 29.5 km² B) 78.5 km²
C) 10602.9 km² D) 20.9 km²

17)



- A) 756.1 mi² B) 11.8 mi²
C) 15.7 mi² D) 13.1 mi²

18)



- A) 44.0 mi² B) 1.6 mi²
C) 221.2 mi² D) 117.8 mi²

Answers to Midterm Review #4 (Trig Part 1) (ID: 1)

1) B
5) B
9) B
13) D
17) A

2) B
6) D
10) B
14) A
18) D

3) A
7) C
11) A
15) B

4) B
8) D
12) B
16) A