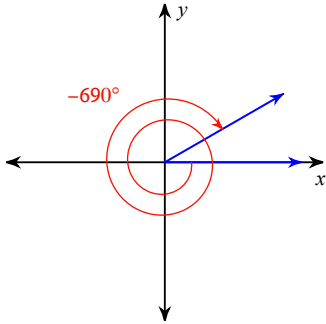


Exam Review #3 (Trig Part 1)

Date _____ Period _____

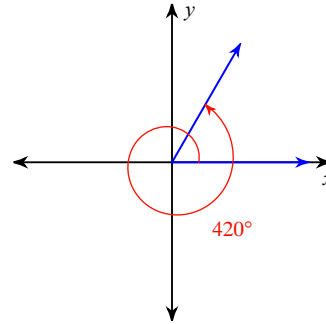
Find the reference angle.

1)



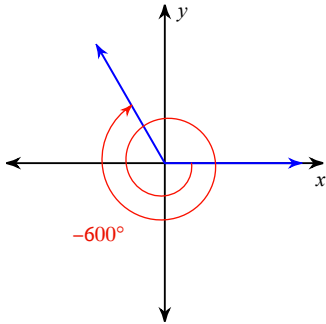
- A) 40° B) 30°
C) 35° D) 70°

2)



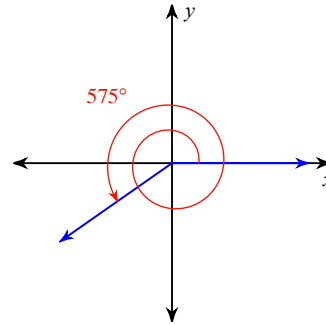
- A) 30° B) 60°
C) 25° D) 40°

3)



- A) 60° B) 40°
C) 30° D) 5°

4)



- A) 80° B) 30°
C) 40° D) 35°

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

5) $\frac{29\pi}{12}$

- A) 485° B) 510°
C) 435° D) 390°

6) $\frac{3\pi}{2}$

- A) 270° B) 540°
C) 430° D) 240°

7) 60°

- A) $\frac{5\pi}{18}$ B) $\frac{2\pi}{3}$
C) $\frac{\pi}{3}$ D) $\frac{11\pi}{36}$

8) $\frac{\pi}{2}$

- A) 105° B) 220°
C) 80° D) 90°

Find a coterminal angle between 0° and 360° .

9) 952°

- A) 112° B) 342°
 C) 52° D) 232°

10) -634°

- A) 86° B) 316°
 C) 226° D) 356°

11) 390°

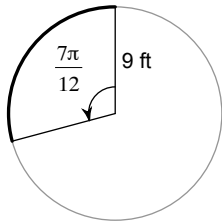
- A) 110° B) 340°
 C) 30° D) 210°

12) -405°

- A) 315° B) 225°
 C) 55° D) 45°

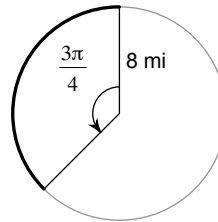
Find the length of each arc.

13)



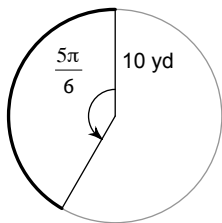
- A) $\frac{21\pi}{4}$ ft B) 81π ft
 C) $\frac{19\pi}{2}$ ft D) 18π ft

14)



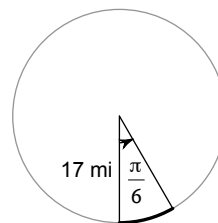
- A) 2160π mi B) $\frac{28\pi}{3}$ mi
 C) 6π mi D) 64π mi

15)



- A) $\frac{\pi}{6}$ yd B) $\frac{2\pi}{3}$ yd
 C) $\frac{25\pi}{3}$ yd D) $\frac{121\pi}{24}$ yd

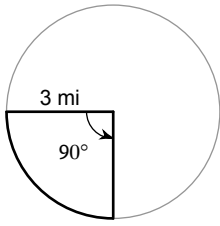
16)



- A) $\frac{17\pi}{6}$ mi B) $\frac{10\pi}{3}$ mi
 C) 289π mi D) 8670π mi

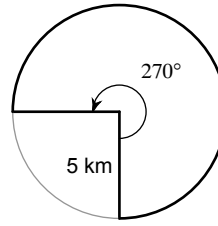
Find the area of each sector.

17)



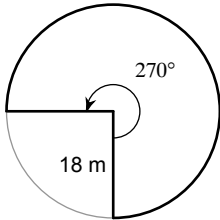
- A) $\frac{323\pi}{12} \text{ mi}^2$ B) $\frac{9\pi}{4} \text{ mi}^2$
 C) $6\pi \text{ mi}^2$ D) $\frac{3\pi}{2} \text{ mi}^2$

18)



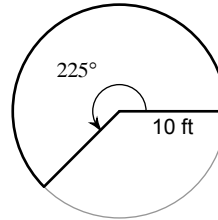
- A) $\frac{49\pi}{6} \text{ km}^2$ B) $25\pi \text{ km}^2$
 C) $\frac{475\pi}{24} \text{ km}^2$ D) $\frac{75\pi}{4} \text{ km}^2$

19)



- A) $\frac{133\pi}{12} \text{ m}^2$ B) $9720\pi \text{ m}^2$
 C) $243\pi \text{ m}^2$ D) $\frac{81\pi}{2} \text{ m}^2$

20)



- A) $25\pi \text{ ft}^2$ B) $\frac{20\pi}{3} \text{ ft}^2$
 C) $\frac{2197\pi}{24} \text{ ft}^2$ D) $\frac{125\pi}{2} \text{ ft}^2$

Answers to Exam Review #3 (Trig Part 1) (ID: 1)

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

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

3) A
7) C
11) C
15) C
19) C

4) D
8) D
12) A
16) A
20) D