

Trig Quiz 8-24-12

Key

Name: _____
 Class: _____
 Date: _____

1. When is assignment 2 (A2) due?
 A. Aug 23 B. Aug 27 C. Aug 29
 D. Aug 31 E. none of these is correct

2. Consider an angle θ in standard position whose measure is $\frac{4\pi}{5}$. What is the measure of this angle in degrees?
 A. 120° B. 134° C. 144°
 D. 150° E. 165°

- 84 / 3. Suppose Mr D is talking about one of his favorite topics "angles as rotations" in Trigonometry, and he is rotating in front of the class as a visual example. Suppose MrD rotates through an angle of 4928 radians. Suppose further he could do this without getting dizzy and falling over. How many complete rotations did MrD do?

$$\frac{4928 \text{ rad}}{2\pi} \approx 784$$

4. An angle θ in standard position whose measure is 4902° has its terminal side in which quadrant?
 A. I B. II C. III D. IV

5. An angle θ in standard position whose measure is 1372° has its terminal side in which quadrant?
 A. I B. II C. III D. IV

6. An angle θ in standard position whose measure is $4,235,000^\circ$ has its terminal side in which quadrant?
 A. I B. II C. III D. IV

For the next set of questions, mark true or false

7. If two angles are both in standard position then they always share the same initial side.
 A. True
 B. False

8. If two angles are both in standard position then they always share the same terminal side.
 A. True
 B. False

9. If two angles in standard position are coterminal then they share the same initial side.
 A. True
 B. False

Since there are 360 of them in a circle clearly 1 degree is larger than 1 radian.

- A. True
- B. False

11. If an angle had a measure of three radians, then its measure in degrees would be 150° .

- A. True
- B. False

12. Consider an angle θ in standard position whose measure is 150° . What is the measure of this angle in radians?

- A. $\frac{5\pi}{6}$
- B. $\frac{7\pi}{6}$
- C. $\frac{\pi}{2}$
- D. $\frac{\pi}{6}$
- E. $\frac{4\pi}{5}$

13. Consider an angle θ in standard position whose measure is 80° . What is the supplement of this angle?

- A. 10°
- B. 110°
- C. 100°
- D. 120°
- E. none of these is correct

14. Consider an angle θ in standard position whose measure is 90° . What is the supplement of this angle?

- A. $\frac{\pi}{5}$
- B. $\frac{\pi}{4}$
- C. $\frac{\pi}{3}$
- D. $\frac{\pi}{2}$
- E. $\frac{\pi}{1}$

15. Suppose θ has a measure of $\frac{2\pi}{5}$, what is the measure of the complement of θ ?

- A. $\frac{\pi}{7}$
- B. $\frac{\pi}{8}$
- C. $\frac{\pi}{9}$
- D. $\frac{\pi}{10}$
- E. $\frac{\pi}{12}$

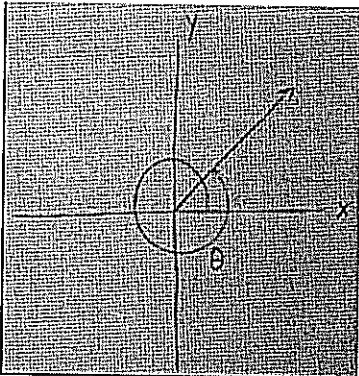


Figure 1.

B 16. Consider the angle drawn in figure 1. The best estimate of the measure of this angle is _____ radians

A. 6

B. 7

C. 8

D. 9

E. 2π

A 17. Consider the angle drawn in figure 1. In what quadrant is the terminal side of this angle located?

A. I

B. II

C. III

D. IV

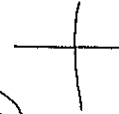
D 18. Consider the ordered pair $(5, -7)$, in what quadrant is this point located?

A. I

B. II

C. III

D. IV



B 19. How many radians are contained in one circle?

A. π B. 2π C. 3π D. 4π

E. 360