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D

Е

Geometry Sample Mcqs

- 1. Which of the following letters represents the vertex in the following picture?
- A. D and E
- B. E and H
- C. F and G
- D. G only
- E. H only
- 2. If a circle has the diameter of 8, what is the circumference?
- A. 6.28
- B. 12.56
- C. 25.13
- D. 50.24
- E. 100.48
- 3. What is the area of the triangle below?



A. 22 cm²
B. 33 cm²
C. 44 cm²
D. 50 cm²
E. 66 cm²



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4. What is the measure of the solid line angle depicted by the following figure?



- A. 90 degrees
- B. 180 degrees
- C. 225 degrees
- D. 270 degrees
- E. 0 degrees

C.

D.

Ε.

50°

135

225

5. What is the measure of angle B in the following figure if angle A measures 135°?











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Β. 6 C. 8 D. 10 9. In the accompanying diagram, tangent \overline{AB} and secant n ACD are drawn to circle O from point A, AB = 6 and AC = 4. Find AD. о B Α. 5 B. 9 C. 10 D. 13 In the accompanying diagram of circle O, m < ABC = 2x and 10. mAC = x + 60. Find the value of x. В o A. 20 Β. 40 C. 60 D. 80



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11. Given the circle at the right with diameter AB, find x. 30° Α. Β. 45° C. 60° 90° D. Given a circle with the center indicated. Find x. 12. Α. 100 Β. 80 C. 50 D. 40 Two chords intersect within a circle to form an angle whose 13. 3 and 10x - 14, find the measure of larger of these two arcs. 3x+ 9 13



5y

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5 feet

- C. 30
- D. 76
- 14. A cathedral window is built in the shape of a semicircle. If the window is to contain three stained glass sections of equal size, what is the area of each stained glass section? Express answer to the *nearest square foot*.
- A. 1 sq. ft.
- B. 3 sq. ft.
- C. 13 sq. ft.
- D. 26 sq. ft.
- 15. Given the two secants shown in the diagram at the right, find the number of degrees in the angle labeled *x*.

- A. 40°B. 60°
- B. 60°C. 80°
- D. 140°

1

2

16.

R

The number of common tangents that can be drawn for two externally tangent circles is



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- C. 3
- D. 4
- ^{17.} Given tangent \overline{AC} to the circle shown at the right. Find the size of the arc designated by



- A. 25
- B. 50
- C. 100
- D. 260
- 18. Given a circle with two secants as shown at the right. Find the value of the arc designated by *x*.
- A. 105
- B. 80
- C. 45
- D. 25

Β.

35 55

70

19. Given the circle at the right with the indicated center. Find the measure of the angle designated by x.



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- D. 72.5
- 20. Given the circle at the right with two tangents to the circle from a common external point. Find the measure of the angle designated by x.
- A. 80
- B. 85
- C. 130
- D. 90
- 21. Given: $\overline{AB} \cong \overline{AC}$ in circle *O* at the right. Which method for proving congruent triangles can be used to prove that $\Delta ACO \cong \Delta ABO$?
- A. Side-Side-Side (SSS)
- B. Side-Angle-Side (SAS)
- C. Angle-Side-Angle (ASA)
- D. All of the above.
- Given the circle at the right with designated center, designated perpendicular, and radius5. Find the length of the segment labeled *x*.
- A. 4
- B. 8
- C. 12
- D. 16
- 23. Given: tangent AD, diameter CD, secant AC in circle O shown at the right. Which two sets of congruent angles can be used to prove ΔADC ~ ΔDBC?
 A. ∠1 ≅ ∠6 and ∠ADC ≅ ∠4
 A. ∠1 ≅ ∠1 and ∠ADC ≅ ∠4
 ∠1 ≅ ∠1 and ∠ADC ≅ ∠5



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D. $\measuredangle 2 \cong \measuredangle 6 \text{ and } \measuredangle ADC \cong \measuredangle 4$

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