ARKANSAS GEOMETRY · UNIT 2 · 10 QUESTIONS

Circles and Coordinate Geometry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A circle has radius 10. Its area, in terms of π, is**

- **A** 20π
- **B** 100π
- **C** 40π
- **D** 10π

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2 **A central angle of 180° in a circle of radius 7 cuts off an arc of length, in terms of π**

- A 7π
- B 14π
- C 3.5π
- D 49π

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3 **An inscribed angle measures 35°. Its intercepted arc measures**

- A 35°
- B 17.5°
- C 105°
- D 70°

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4 The equation of the line through (0, -3) with slope -2 is

- **A** $y = -2x - 3$
- **B** $y = -2x + 3$
- **C** $y = 2x - 3$
- **D** $y = 3x - 2$

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5 A line has slope $-\frac{1}{4}$. A line perpendicular to it has slope

- **A** 4
- **B** $-\frac{1}{4}$
- **C** $\frac{1}{4}$
- **D** -4

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6 **Two radii of a circle form a central angle of 120°. The minor arc between their endpoints measures**

- A 60°
- B 240°
- C 120°
- D 30°

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7 **A radius of length 9 and a tangent segment of length 12**

- A 21
- B 3
- C 15
- D 108

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8 **The point (8, 15) lies on a circle centered at the origin The radius of the circle is ____**

ANSWER _____

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9 **The circle with center (-2, 6) and radius 3 has equation**

A $(x + 2)^2 + (y - 6)^2 = 9$

B $(x - 2)^2 + (y + 6)^2 = 9$

C $(x + 2)^2 + (y - 6)^2 = 3$

D $(x - 2)^2 + (y - 6)^2 = 9$

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10 **A quadrilateral inscribed in a circle has one angle of 82°. The opposite angle measures**

A 82°

B 164°

C 8°

D 98°

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ANSWER KEY

1.	B	**5.**	A	**9.**	A
2.	A	**6.**	C	**10.**	D
3.	D	**7.**	C		
4.	A	**8.**	17		

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