DELAWARE GEOMETRY · UNIT 2 · 25 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 3. Its circumference is**

- **A** 3π
- **B** 6π
- **C** 9π
- **D** 5π

Understand It with Pulse | Flag a mistake

2 **A circle has radius 8 and a central angle of 90°. The arc length is**

- **A** 8π
- **B** 5π
- **C** 4π
- **D** 2π

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3 **A circle has center (4, -2) and radius 5. Its equation is**

- **A** $x^2 + y^2 = 25$
- **B** $(x - 4)^2 + (y + 2)^2 = 5$
- **C** $x^2 + y^2 = 5$
- **D** $(x - 4)^2 + (y + 2)^2 = 25$

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4 **An angle measures 57°. Its complement measures**

- A 147°
- B 33°
- C 123°
- D 57°

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5 **An angle measures 31°. Its supplement measures**

- A 59°
- B 31°
- C 149°
- D 211°

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6 **The sum of the interior angles of a polygon with 10 sides is**

- A 1620°
- B 1260°
- C 360°
- D 1440°

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7 **A circle has radius 6. Its area is**

- A 36π
- B 12π
- C 6π
- D 72π

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8 **A circle has radius 6. Its circumference is**

- A 6π
- B 12π
- C 36π
- D 8π

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9 **A circle has radius 6 and a central angle of 60°. The arc length is**

- A 6π
- B 3π
- C 2π
- D 1π

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10 **A circle has center (2, 3) and radius 3. Its equation is**

- **A** $x^2 + y^2 = 9$
- **B** $(x - 2)^2 + (y - 3)^2 = 3$
- **C** $x^2 + y^2 = 3$
- **D** $(x - 2)^2 + (y - 3)^2 = 9$

Understand It with Pulse | Flag a mistake

11 **The midpoint of the segment joining (2, -4) and (-6, 6) is**

- **A** (-2, 1)
- **B** (-4, 2)
- **C** (-2, -4)
- **D** (2, 1)

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12 **An angle measures 23°. Its complement measures**

A 113°

B 67°

C 157°

D 23°

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13 **An angle measures 67°. Its supplement measures**

A 23°

B 67°

C 113°

D 247°

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14 The sum of the interior angles of a polygon with 9 sides is

- A 1440°
- B 1080°
- C 360°
- D 1260°

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15 A circle has radius 5. Its circumference is

- A 5π
- B 10π
- C 25π
- D 7π

Understand It with Pulse | Flag a mistake

16 **A circle has center (4, 4) and radius 3. Its equation is**

A $x^2 + y^2 = 9$

B $(x - 4)^2 + (y - 4)^2 = 3$

C $x^2 + y^2 = 3$

D $(x - 4)^2 + (y - 4)^2 = 9$

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17 **An angle measures 50°. Its complement measures**

A 140°

B 40°

C 130°

D 50°

Understand It with Pulse | Flag a mistake

18 **An angle measures 37°. Its supplement measures**

A 53°

B 37°

C 143°

D 217°

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19 **The sum of the interior angles of a polygon with 6 sides is**

A 900°

B 540°

C 360°

D 720°

Understand It with Pulse | Flag a mistake

20 **A circle has center (-1, 4) and radius 5. Its equation is**

- **A** $x^2 + y^2 = 25$
- **B** $(x + 1)^2 + (y - 4)^2 = 5$
- **C** $x^2 + y^2 = 5$
- **D** $(x + 1)^2 + (y - 4)^2 = 25$

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21 **The midpoint of the segment joining (4, 2) and (0, 6) is**

- **A** (2, 4)
- **B** (4, 8)
- **C** (2, 2)
- **D** (4, 4)

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22 An angle measures 54°. Its supplement measures

- A 36°
- B 54°
- C 126°
- D 234°

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23 The sum of the interior angles of a polygon with 12 sides is

- A 1980°
- B 1620°
- C 360°
- D 1800°

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24 **A circle has radius 3. Its area is**

A 9π

B 6π

C 3π

D 18π

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25 **A circle has radius 4. Its circumference is**

A 4π

B 8π

C 16π

D 6π

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. C
3. D
4. B
5. C
6. D
7. A
8. B
9. C
10. D
11. A
12. B
13. C
14. D
15. B
16. D
17. B
18. C
19. D
20. D
21. A
22. C
23. D
24. A
25. B

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