SOUTH DAKOTA GEOMETRY · UNIT 2

Circles and Coordinate Geometry — Practice Test

South Dakota Geometry • 10 questions

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 diameter 10. Its circumference, to one decimal place, is about**

A 31.4

B 62.8

C 78.5

D 15.7

Understand It with Pulse | Flag a mistake

2 A circle has radius 3. Its area, to one decimal place, is about

- **A** 18.8
- **B** 28.3
- **C** 9.4
- **D** 56.5

Understand It with Pulse | Flag a mistake

3 A circle has radius 12. An arc with central angle 30° has length, to one decimal place, about

- **A** 75.4
- **B** 12.6
- **C** 6.3
- **D** 37.7

Understand It with Pulse | Flag a mistake

4 **A circle has radius 8. A sector with central angle 45° has area, to one decimal place, about**

- **A** 50.3
- **B** 25.1
- **C** 12.6
- **D** 100.5

Understand It with Pulse | Flag a mistake

5 **The equation of the circle with center (-4, 1) and radius 3 is**

- **A** $(x - 4)^2 + (y + 1)^2 = 9$
- **B** $(x + 4)^2 + (y + 1)^2 = 3$
- **C** $(x - 4)^2 + (y - 1)^2 = 3$
- **D** $(x + 4)^2 + (y - 1)^2 = 9$

Understand It with Pulse | Flag a mistake

6 **The circle $(x - 5)^2 + (y + 2)^2 = 49$ has center**

A (5, 2)

B (-5, -2)

C (5, -2)

D (-5, 2)

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7 **The slope of the line through (2, 1) and (6, 9) is**

A 0.5

B 2

C -2

D 8

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8 **A line perpendicular to a line of slope -2 has slope**

- A 2
- B -2
- C 0.5
- D -0.5

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9 **The distance between (0, 3) and (4, 0) is ____**

ANSWER _____

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10 **A circle has radius 6. An arc with central angle 60° has length, to one decimal place, about ____**

ANSWER _____

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ANSWER KEY

1.	A	**5.**	D	**9.**	5
2.	B	**6.**	C	**10.**	6.3
3.	C	**7.**	B		
4.	B	**8.**	C		

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