COLORADO 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 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)

Understand It with Pulse | Flag a mistake

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

A 0.5

B 2

C -2

D 8

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

# ANSWER KEY

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

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