NEW MEXICO 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

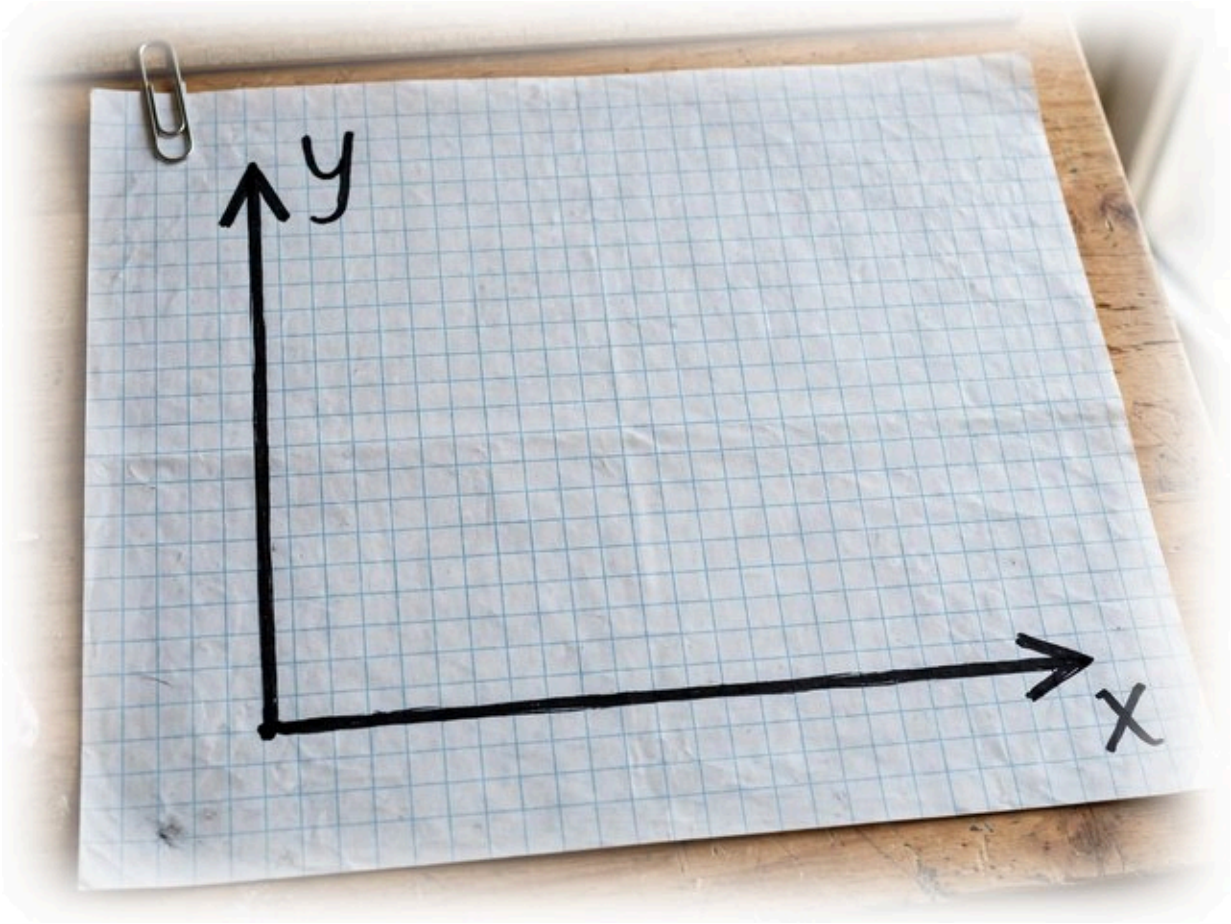
Understand It with Pulse | Flag a mistake

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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