ALASKA 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 **Two secants meet outside a circle. One has an outside segment of 5 and a whole length of 20. The other has an outside segment of 10. The whole length of the second secant is**

- A 20
- B 10
- C 50
- D 4

Understand It with Pulse | Flag a mistake

2 **A circle has diameter 12. Its circumference, to one decimal place, is about**

- A 37.7
- B 75.4
- C 113.1
- D 18.8

Understand It with Pulse | Flag a mistake

3 **A circle has diameter 10. Its area, to one decimal place, is about**

- A 31.4
- B 157.1
- C 314.2
- D 78.5

Understand It with Pulse | Flag a mistake

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

A 75.4

B 6.3

C 12.6

D 3.1

Understand It with Pulse | Flag a mistake

5 **A circle has radius 4. A sector with central angle 270° has area, to one decimal place, about**

A 12.6

B 50.3

C 25.1

D 37.7

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6 **The equation of the circle with center (0, -6) and radius 3 is**

- **A** $x^2 + (y - 6)^2 = 9$
- **B** $(x - 6)^2 + y^2 = 9$
- **C** $x^2 + (y + 6)^2 = 3$
- **D** $x^2 + (y + 6)^2 = 9$

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7 **The slope of the line through (3, 1) and (9, 4) is**

- **A** 2
- **B** 0.5
- **C** 3
- **D** 6

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8 A line perpendicular to a line of slope $\frac{2}{5}$ has slope

- **A** $\frac{2}{5}$
- **B** $-\frac{5}{2}$
- **C** $\frac{5}{2}$
- **D** -2

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9 The distance between (0, 0) and (6, 8) is ____

ANSWER _____

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10 A circle has radius 5. A sector with central angle 180° has area, to one decimal place, about ____

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	D	**9.**	10
2.	A	**6.**	D	**10.**	39.3
3.	D	**7.**	B		
4.	B	**8.**	B		

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