CIRCLES AND COORDINATE GEOMETRY - PRACTICE TEST | MISSOURI GEOMETRY · UNIT 2 · 10 QUESTIONS

Circles and Coordinate Geometry, 10-question test — Practice Test

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1

A circle has diameter 10. Its circumference, to one decimal place, is about

Question 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

- A 31.4
- B 62.8
- C 78.5
- D 15.7

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

Question 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

A 18.8

B 28.3

C 9.4

D 56.5

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3

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

Question 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

A 75.4

B 12.6

C 6.3

D 37.7

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4

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

Question 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

A 50.3

B 25.1

C 12.6

D 100.5

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5

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

Question 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) $(x + 4)^2 + (y - 1)^2 = 9$

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 $(x + 4)^2 + (y - 1)^2 = 9$

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

Question 6

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

A) (5, 2)

B) (−5, −2)

C) (5, −2)

D) (−5, 2)

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

Question 7

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

A) 0.5

B) 2

C) −2

D) 8

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

Question 8

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

A) 2 B) -2

C) 0.5 D) -0.5

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

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

Question 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 _____

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

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