Geometry: Conics and Fractals — Practice Test

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1 **The vertex of the parabola $y = -(x + 2)^2 + 5$ is**

- A (-2, 5)
- B (2, 5)
- C (-2, -5)
- D (2, -5)

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2 **The axis of symmetry of the parabola $y = x^2 + 4x + 3$ is**

- **A** $x = 2$
- **B** $x = -2$
- **C** $y = 2$
- **D** $y = -2$

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3 **A clock face is a circle. The radius of the circle $(x + 3)^2 + (y - 1)^2 = 49$ is**



A 7

B 14

C 49

D 3

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4 The equation of the circle with centre (4, -2) and radius 3 is

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

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5 The length of the major axis of $\frac{x^2}{36} + \frac{y^2}{16} = 1$ is

- **A** 6
- **B** 8
- **C** 12
- **D** 16

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ANSWER KEY

1. A
2. B
3. A
4. A
5. C

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