MAINE PRECALCULUS · UNIT 3 · 5 QUESTIONS

# Analytic Geometry and Conics — 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** **The water jets of a garden fountain arc in parabolas. The vertex of $y = x^2 - 6x + 5$ is**



A (3, -4)

B (-3, -4)

C (3, 4)

D (-3, 4)

Understand It with Pulse | Flag a mistake

**2** The focus of $y^2 = -8x$ is

- **A** (-2, 0)
- **B** (2, 0)
- **C** (0, 2)
- **D** (0, -2)

Understand It with Pulse | Flag a mistake

**3** The directrix of $y^2 = 8x$ is

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

Understand It with Pulse | Flag a mistake

**4** **The center of $(x + 1)^2 + (y - 4)^2 = 16$ is**

- A (1, 4)
- B (-1, 4)
- C (1, -4)
- D (-1, -4)

Understand It with Pulse | Flag a mistake

**5** **The radius of $x^2 + y^2 = 49$ is**

- A 49
- B 14
- C $\sqrt{7}$
- D 7

Understand It with Pulse | Flag a mistake

## ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.