ILLINOIS 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 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 **A red apple falls from a tree branch in sharp focus. 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

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ANSWER KEY

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

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