ALASKA 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 $y = -(x - 5)^2 - 1$ is**

- A (5, -1)
- B (-5, -1)
- C (5, 1)
- D (-5, 1)

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 $y^2 = 24x$ is**

- A $x = 6$
- B $x = -6$
- C $y = 6$
- D $y = -6$

Understand It with Pulse | Flag a mistake

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

- A $(0, 4)$
- B $(4, 0)$
- C $(-4, 0)$
- D $(0, -4)$

Understand It with Pulse | Flag a mistake

5 **The radius of $x^2 + (y + 4)^2 = 16$ is**

A 16

B 8

C 4

D 2

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.