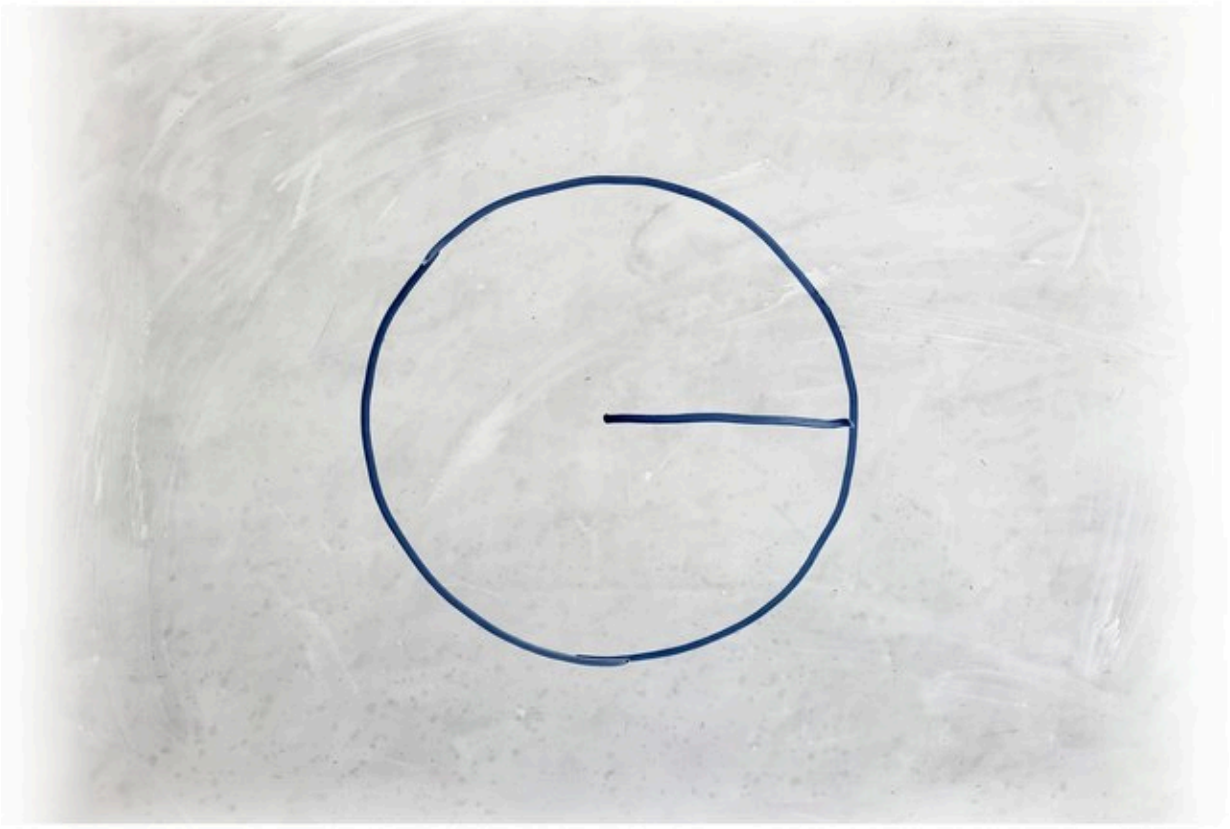
CALIFORNIA PRECALCULUS · UNIT 3 · 10 QUESTIONS

# Conic Sections, Parametric Equations, and Vectors — 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 radius of $(x - 2)^2 + (y + 1)^2 = 9$ is**



A 3

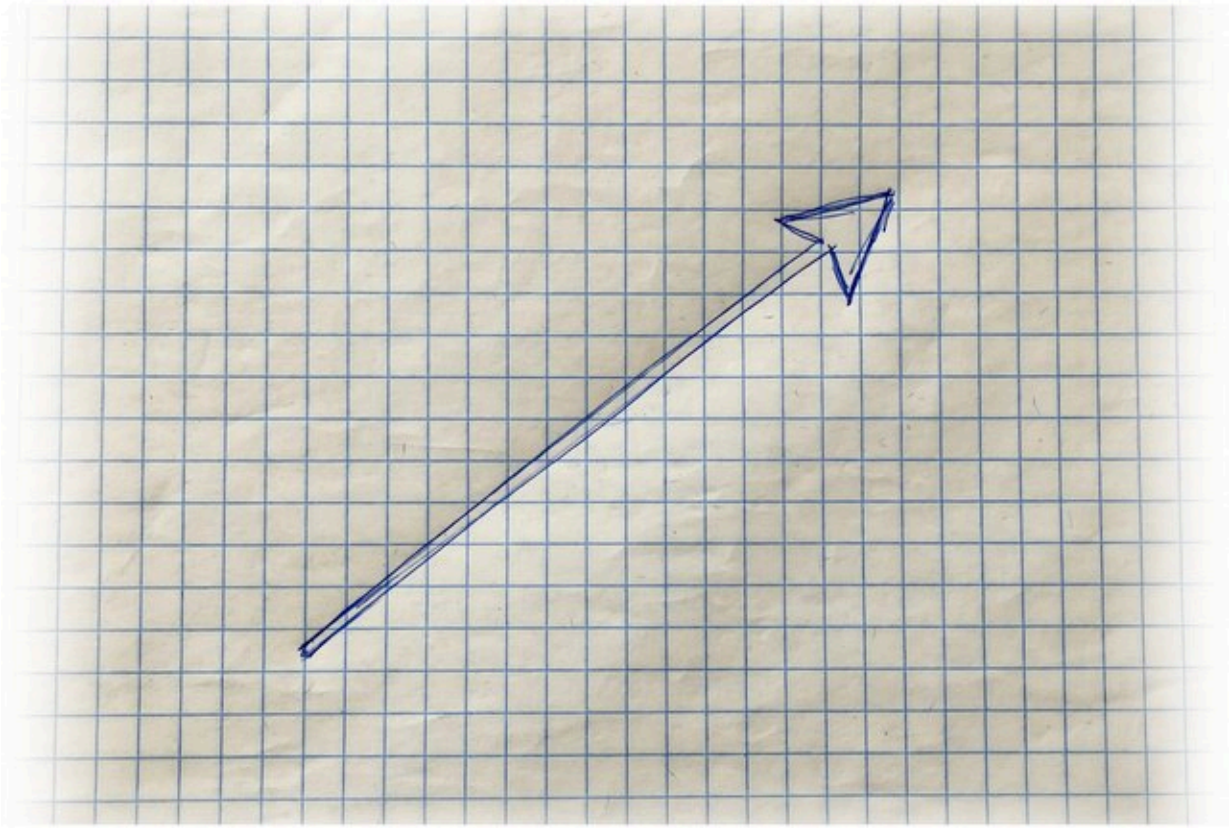
B 6

C 81

D 9

Understand It with Pulse | Flag a mistake

**2** **The magnitude of the vector langle 9, 12 rangle is**



A 21

B 3

C 108

D 15

Understand It with Pulse | Flag a mistake

3 **The sum langle 1, 2 rangle + langle 3, -1 rangle is**

A langle 4, 1 rangle

B langle 4, 3 rangle

C langle -2, 3 rangle

D langle 2, 3 rangle

Understand It with Pulse | Flag a mistake

4 **The vertex of $y = (x - 3)^2 + 2$ is**

A (-3, -2)

B (3, 2)

C (3, -2)

D (-3, 2)

Understand It with Pulse | Flag a mistake

**5** **The unit vector in the direction of langle 3, 4 rangle is**

- A langle $\underline{3}$
- B langle $\underline{1}$
- C langle 3, 4 rangle
- D langle $\underline{4}$

Understand It with Pulse | Flag a mistake

**6** **The radius of $x^2 + y^2 = 25$ is**

- A 25
- B 10
- C $\sqrt{5}$
- D 5

Understand It with Pulse | Flag a mistake

7 **The magnitude of the vector langle 8, 15 rangle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The sum langle -2, 5 rangle + langle 4, 1 rangle is**

A langle 2, 4 rangle

B langle 6, 6 rangle

C langle 2, 6 rangle

D langle -6, 4 rangle

Understand It with Pulse | Flag a mistake

**9** The vertex of $y = (x + 1)^2 + 4$ is

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

Understand It with Pulse | Flag a mistake

**10** The radius of $(x + 3)^2 + (y - 2)^2 = 16$ is

- A 32
- B 4
- C 16
- D 8

Understand It with Pulse | Flag a mistake

## ANSWER KEY

1. A
2. D
3. A
4. B
5. A
6. D
7. 17
8. C
9. B
10. B

© 2026 Brett Robbins. All Rights Reserved.