ARIZONA PRECALCULUS · UNIT 3 · 10 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 For $\frac{x^2}{36} + \frac{y^2}{20} = 1$, the minor axis length is

- A 12
- B 8
- C $4\sqrt{5}$
- D 10

Understand It with Pulse | Flag a mistake

2 For $\frac{x^2}{9} - \frac{y^2}{16} = 1$, the value of c is



A 7

B 4

C 3

D 5

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3 For $\frac{x^2}{9} - \frac{y^2}{16} = 1$, the asymptotes are

A $y = \pm \underline{5}$

B $y = \pm \underline{3}$

C $y = \pm \underline{3}$

D $y = \pm \underline{4}$

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4 The vertex of $y = (x - 5)^2 + 4$ is

A (-5, -4)

B (5, 4)

C (-5, 4)

D (5, -4)

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5 **The distance between (0, 0) and (6, 8) is**

A 100

B 14

C 10

D 48

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6 **The midpoint of (-1, 3) and (5, 7) is**

A (2, 5)

B (5, 5)

C (2, 2)

D (3, 2)

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7 **A circle centered at (1, -2) with radius 3 has equation**

- **A** $(x + 1)^2 + (y + 2)^2 = 9$
- **B** $(x - 1)^2 + (y + 2)^2 = 3$
- **C** $(x + 1)^2 + (y - 2)^2 = 9$
- **D** $(x - 1)^2 + (y + 2)^2 = 9$

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8 **The radius of $x^2 + y^2 = 81$ is**

ANSWER _____

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9 For $\frac{x^2}{64} + \frac{y^2}{36} = 1$, the minor axis length is



ANSWER

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10 The value of p for $y^2 = 28x$ is

ANSWER

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ANSWER KEY

1. C
2. D
3. D
4. B
5. C
6. A
7. D
8. 9
9. 12
10. 7

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