ARIZONA ALGEBRA II · UNIT 3 · 10 QUESTIONS

Exponential, Logarithmic, and Trigonometric Functions — 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 equation $2^6 = 64$ in logarithmic form is**

- **A** $\log_2 6 = 64$
- **B** $\log_2 64 = 6$
- **C** $\log_6 64 = 2$
- **D** $\log_{64} 2 = 6$

Understand It with Pulse | Flag a mistake

2 **The value of $\log_2 16 - \log_2 4$ is**

A 4

B 2

C 64

D 12

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3 **The solution of $10^x = 10000$ is**

A x = 3

B x = 5

C x = 4

D x = 100

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4 **The value of sin 45° is**

- **A** $\frac{1}{2}$
- **B** $\frac{\sqrt{2}}{2}$
- **C** $\frac{\sqrt{3}}{2}$
- **D** 1

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5 **The value of cos 30° is**

- **A** 1
- **B** $\frac{\sqrt{2}}{2}$
- **C** $\frac{\sqrt{3}}{2}$
- **D** $\frac{1}{2}$

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6 In a right triangle with hypotenuse 13, adjacent 5, and opposite 12, the tangent of the angle is

- **A** $\frac{12}{13}$
- **B** $\frac{5}{13}$
- **C** $\frac{12}{5}$
- **D** $\frac{5}{12}$

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7 The amplitude of $y = 2 \cos x$ is

- **A** π
- **B** 2
- **C** 1
- **D** 4

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8 **The period of y = cos 3x is**

- A 2π
- B 3π
- C $\frac{2\pi}{3}$
- D $\frac{\pi}{3}$

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9 **The value of sin 0° is**

- A $\frac{1}{2}$
- B 0
- C -1
- D 1

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10 **If $f(x) = 3^x$, then $f(3)$ is**

ANSWER

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ANSWER KEY

1. B
2. B
3. C
4. B
5. C
6. C
7. B
8. C
9. B
10. 27

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