MASSACHUSETTS ALGEBRA 2 · UNIT 3 · 5 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 **Several stacks of gold coins of increasing height stand in a row on a wooden table. The value of 2^5 is**



A 10

B 25

C 32

D 64

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2 **The value of $\log_2 64$ is**

- **A** 6
- **B** 8
- **C** 32
- **D** 5

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3 **An expanded form of $\log\left(\frac{x}{y^3}\right)$ is**

- **A** 3log x - log y
- **B** log x · log y
- **C** log x + 3log y
- **D** log x - 3log y

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4 **The expression log x + log y is equivalent to**

- **A** $\log x \cdot \log y$
- **B** $\log(x + y)$
- **C** $\log(xy)$
- **D** $\log(\frac{x}{y})$

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5 **The solution of $3^x = 27$ is**

- **A** 2
- **B** 9
- **C** 3
- **D** 4

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ANSWER KEY

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

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