# Exponential, Logarithmic, and Trigonometric Functions — Practice Test

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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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