NUNAVUT MATH 30-2 · UNIT 6 · 5 QUESTIONS

Exponential and Logarithmic 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 value of $\log_4 64$ is**

- **A** 2
- **B** 3
- **C** 4
- **D** 16

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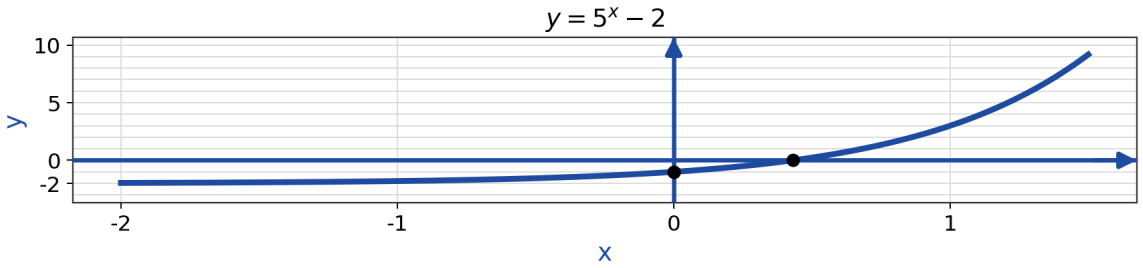
2 **The graph below shows an exponential function. The value where the graph crosses the y-axis is**



A -1

B 1

C 3

D -2

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3 **A yeast culture starts with 200 cells and triples every hour. The number of cells after 3 hours is**

A 1800

B 600

C 5400

D 16200

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4 **A medication has a half-life of 4 days. A patient starts with 96 mg in their system. The amount remaining after 12 days, in milligrams, is _____ Record your answer as a whole number.**

ANSWER _____

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5 **Written in exponential form, $\log_2 32 = 5$ is equivalent to**

A $5^2 = 32$

B $32^2 = 5$

C $2^{32} = 5$

D $2^5 = 32$

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ANSWER KEY

1. B
2. A
3. C
4. 12
5. D

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