NOVA SCOTIA MATHEMATICS 12 · UNIT E

Exponential, Logarithmic and Sinusoidal Functions — Practice Test

Nova Scotia Mathematics 12 • 10 questions

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 **Find the value of 5×2^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Find the value of 6×3^2 .**

ANSWER _____

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3 **Find the value of 2×4^4 .**

ANSWER _____

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4 Log of a product equals

- A the sum of the logs
- B the product of the logs
- C the difference of the logs
- D the quotient of the logs

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5 Log of a quotient equals

- A the sum of the logs
- B the difference of the logs
- C the product of the logs
- D the log of the sum

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6 **The domain of a logarithmic function y = log x is**

- **A** all real numbers
- **B** x less than 0
- **C** x greater than 0
- **D** x greater than or = 0

Understand It with Pulse | Flag a mistake

7 **The range of $y = 2^x$ is**

- **A** all real numbers
- **B** y less than 0
- **C** y greater than or = 0
- **D** y greater than 0

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8

A phase shift moves a sinusoidal graph

A left or right

B up or down

C wider or narrower

D taller or shorter

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9

Increasing the frequency of a sine wave

A lengthens its period

B shortens its period

C raises its midline

D lowers its amplitude

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10 **Half life is the time for a quantity to**

A double

B reach zero

C fall to half its value

D stop changing

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ANSWER KEY

1.	40	**5.**	B	**9.**	B
2.	54	**6.**	C	**10.**	C
3.	512	**7.**	D		
4.	A	**8.**	A		

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