NOVA SCOTIA MATHEMATICS 12 · UNIT E

Exponential, Logarithmic and Sinusoidal Functions — Practice Test

Nova Scotia Mathematics 12 • 25 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 2×3^4 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Find the value of 3×2^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Find the value of 2×5^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Find the value of 4×2^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Find the value of 5×2^4 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Find the value of 3×3^2 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Find the value of 2×4^5 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Find the value of 6×2^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Find the value of 2×2^6 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Find the value of 3×4^2 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Find the value of 4×3^2 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Find the value of 2×6^3 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Find the value of 5×3^2 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Find the value of 3×2^5 .**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An exponential function has the variable in**

A the exponent

B the base only

C the coefficient only

D the constant term

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16 **The graph of exponential growth**

A is a straight line

B rises ever more steeply

C falls to zero and stays there

D is a circle

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17 **The logarithm base b of y is the exponent to which**

A y must be raised to give b

B b must be multiplied to give y

C b must be raised to give y

D y must be added to give b

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18 **Log base 10 of 1000 equals**

A 10

B 100

C 1000

D 3

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19 **The natural logarithm uses base**

A e

B 10

C 2

D pi

Understand It with Pulse | Flag a mistake

20 **The amplitude of y = A sin x is**

A A itself, including sign

B the |A|

C the period

D the midline

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21 **The period of y = sin of 2x , in degrees , is**

- A 360
- B 720
- C 180
- D 90

Understand It with Pulse | Flag a mistake

22 **The midline of a sinusoidal function is**

- A the x axis always
- B the maximum value
- C the amplitude
- D the horizontal line halfway between maximum and minimum

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23 **A sinusoidal function repeats its values every**

- A period
- B amplitude
- C phase shift
- D midline

Understand It with Pulse | Flag a mistake

24 **Exponential decay means the quantity**

- A decreases by a fixed amount each step
- B decreases by a fixed percent each step
- C increases each step
- D stays constant

Understand It with Pulse | Flag a mistake

25 **The inverse of an exponential function is**

A another exponential function

B a sine function

C a logarithmic function

D a polynomial

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	162	**10.**	48	**19.**	A
2.	24	**11.**	36	**20.**	B
3.	250	**12.**	432	**21.**	C
4.	32	**13.**	45	**22.**	D
5.	80	**14.**	96	**23.**	A
6.	27	**15.**	A	**24.**	B
7.	2048	**16.**	B	**25.**	C
8.	48	**17.**	C		
9.	128	**18.**	D		

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