PRINCE EDWARD ISLAND FOUNDATIONS OF MATHEMATICS 12 · UNIT E · 25 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 **The base 10 logarithm of 100 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The value of 2^5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A sample of 800 grams halves every day. After 3 days the mass in grams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The cosine of 60 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A quantity grows by 10 percent each year from 1000. After 2 years the quantity is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A radian measure of pi radians equals this many degrees**

A 270

B 180

C 90

D 360

Understand It with Pulse | Flag a mistake

7 **An angle of 180 degrees in radians, using pi as the unit, has a coefficient of pi equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A exponent

B base only

C coefficient only

D denominator only

Understand It with Pulse | Flag a mistake

9 **Exponential decay means a quantity**

A increases by a fixed amount

B stays constant

C oscillates

D decreases by a fixed percent each period

Understand It with Pulse | Flag a mistake

10 **In a right triangle, sine of an angle equals**

A opposite over adjacent

B hypotenuse over opposite

C opposite over hypotenuse

D adjacent over hypotenuse

Understand It with Pulse | Flag a mistake

11 **Logarithms turn multiplication into**

A addition

B subtraction

C division

D exponentiation

Understand It with Pulse | Flag a mistake

12 **The amplitude of 3 sine x is**

A 3

B 1

C 0

D -3

Understand It with Pulse | Flag a mistake

13 **The cosine of 0 degrees equals**

A one half

B 1

C 0

D -1

Understand It with Pulse | Flag a mistake

14 **The inverse of an exponential function is a**

A linear function

B trigonometric function

C logarithmic function

D quadratic function

Understand It with Pulse | Flag a mistake

15 **The logarithm base 10 of 100 equals**

A 1

B 2

C 10

D 100

Understand It with Pulse | Flag a mistake

16 **The period of sine x in degrees is**

A 720

B 360

C 180

D 90

Understand It with Pulse | Flag a mistake

17 **The sine function has a maximum value of**

A 0

B 2

C -1

D 1

Understand It with Pulse | Flag a mistake

18 **The sine of 30 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The tangent of an angle equals**

A sine × cosine

B one over sine

C sine over cosine

D cosine over sine

Understand It with Pulse | Flag a mistake

20 **The base 10 logarithm of 1000 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The value of 3^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A sample of 400 grams halves every day. After 2 days the mass in grams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The cosine of 90 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The base 2 logarithm of 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The value of 5^2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	2	**10.**	C	**19.**	C
2.	32	**11.**	A	**20.**	3
3.	100	**12.**	A	**21.**	27
4.	0.5	**13.**	B	**22.**	100
5.	1210	**14.**	C	**23.**	0
6.	B	**15.**	B	**24.**	3
7.	1	**16.**	B	**25.**	25
8.	A	**17.**	D		
9.	D	**18.**	0.5		

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