NEWFOUNDLAND AND LABRADOR MATHEMATICS 3201 · UNIT E · 10 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 $\log_2 16$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

2 $3^x = 81$. The value of x is

ANSWER _____

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3 **A sample of 500 grams halves every period. After 2 periods, the mass remaining is, in grams**



ANSWER

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4 **In a right triangle with adjacent side 4 and hypotenuse 5 , cos of the angle between them is**



A $\frac{4}{}$

B $\frac{3}{}$

C $\frac{4}{}$

D $\frac{3}{}$

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5 In a right triangle with opposite side 3 and adjacent side 4 , tan θ is

- A $\frac{4}{}$
- B $\frac{3}{}$
- C $\frac{3}{}$
- D $\frac{4}{}$

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6 The amplitude of y = 4 cos x is

- A 1
- B 2
- C 4
- D 0

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7 The period of $y = \sin(4x)$ is

- A 2π
- B π
- C $\underline{\pi}$
- D $\underline{\pi}$

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8 The horizontal asymptote of $y = 2^x - 1$ is

- A $y = -1$
- B $y = 0$
- C $y = 1$
- D $y = 2$

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9 **A quantity of 400 grows at 10 percent per year. After 2 years it is**

ANSWER _____

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10 **A sample of 200 grams halves every period. After 1 period, the mass remaining is, in grams**

ANSWER _____

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ANSWER KEY

1. 4
2. 4
3. 125
4. A
5. B
6. C
7. D
8. A
9. 484
10. 100

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