SASKATCHEWAN FOUNDATIONS OF MATHEMATICS 30 · UNIT E

Exponential and Logarithmic Functions — Practice Test

Saskatchewan Foundations of Mathematics 30 • 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 **An amount of 100 grows by a factor of 3 each year. After 2 years, the amount is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The value of log base 10 of 100000 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A sample of 200 g has a half-life of 1 hour. After 1 hours, the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The value of log base 10 of 10000 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The value of log base 3 of 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sample of 100 g has a half-life of 1 hour. After 1 hours, the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A sample of 800 g has a half-life of 1 hour. After 3 hours, the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Solve : $2^x = 256$. The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **Solve : $2^x = 64$. The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **A population of 100 doubles every year. After 2 years, the population is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **The value of log base 5 of 125 is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **An amount of 300 grows by a factor of 2 each year. After 2 years, the amount is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The value of log base 10 of 100 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Using logarithm laws, log 2 plus log 3 equals**

A log 6

B log 5

C log -1

D log 8

Understand It with Pulse | Flag a mistake

15 **Using logarithm laws, log 4 plus log 3 equals**

A log 7

B log 12

C log 1

D log 64

Understand It with Pulse | Flag a mistake

16 **The value of log base 2 of 32 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Using logarithm laws, log 5 plus log 2 equals**

A log 7

B log 3

C log 10

D log 25

Understand It with Pulse | Flag a mistake

18 **Using logarithm laws, log 3 plus log 4 equals**

A log 7

B log -1

C log 81

D log 12

Understand It with Pulse | Flag a mistake

19 **Solve : $2^x = 32$. The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **The value of log base 2 of 8 is**

ANSWER

Understand It with Pulse | Flag a mistake

21 **The value of log base 10 of 1000 is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **Solve : $2^x = 4$. The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **The value of log base 2 of 16 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A population of 50 doubles every year. After 5 years, the population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A sample of 100 g has a half-life of 1 hour. After 2 hours, the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 900
2. 5
3. 100
4. 4
5. 2
6. 50
7. 100
8. 8
9. 6
10. 400
11. 3
12. 1200
13. 2
14. A
15. B
16. 5
17. C
18. D
19. 5
20. 3
21. 3
22. 2
23. 4
24. 1600
25. 25

© 2026 Brett Robbins. All Rights Reserved.