Northwest Territories Pre-Calculus 12 (MPREC12)
Practice Test

Unit B: Exponential Functions and Logarithms

10 Questions

Original practice test based on the Northwest Territories curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

The value of $\log_3 81$ is

A) 9

B) 3

C) 4

D) 27

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Question 2

Using log laws, $\log 12 - \log 3$ equals

A) $\log 4$

B) $\log 9$

C) $\log 36$

D) $\log 15$

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Question 3

The solution of $2^{x+1} = 16$ is

A) $x = 4$

B) $x = 3$

C) $x = 2$

D) $x = 8$

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Question 4

The value of $\log_2 8 + \log_2 4$ is

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Question 5

Using log laws, $\log a^3$ equals

A) $\frac{\log a}{3}$

B) $\log a + 3$

C) $a \log 3$

D) $3 \log a$

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Question 6

Written as a logarithm, $2^6 = 64$ becomes

A) $\log_{64} 2 = 6$

B) $\log_6 64 = 2$

C) $\log_2 6 = 64$

D) $\log_2 64 = 6$

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Question 7

Written as an exponential, $\log_4 16 = 2$ becomes

A) $4^{16} = 2$

B) $2^4 = 16$

C) $16^2 = 4$

D) $4^2 = 16$

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Question 8

The value of $\log_{10} 1000$ is

A) 3

B) 10

C) 100

D) 4

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Question 9

Using log laws, $\log 2 + \log 5$ equals

A) $\log 10$

B) $\log 7$

C) $\log 25$

D) $2 \log 5$

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Question 10

The value of $\log_2 1$ is

A) 2

B) 1

C) 0

D) -1

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ANSWER KEY

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

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