YUKON PRE-CALCULUS 12 (MPREC12) · UNIT B

Exponential Functions and Logarithms — Practice Test

Yukon Pre-Calculus 12 (MPREC12) • 10 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 **The value of $\log_3 81$ is**

- A 9
- B 3
- C 4
- D 27

Understand It with Pulse | Flag a mistake

2 Using log laws, log 12 - log 3 equals

- A log 4
- B log 9
- C log 36
- D log 15

Understand It with Pulse | Flag a mistake

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

- A x = 4
- B x = 3
- C x = 2
- D x = 8

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A $3 \log a$

B $\log \frac{a}{3}$

C $\log a + 3$

D $a \log 3$

Understand It with Pulse | Flag a mistake

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** $\log_2 64 = 6$

Understand It with Pulse | Flag a mistake

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

- **A** $4^{16} = 2$
- **B** $2^4 = 16$
- **C** $16^2 = 4$
- **D** $4^2 = 16$

Understand It with Pulse | Flag a mistake

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

- A 3
- B 10
- C 100
- D 4

Understand It with Pulse | Flag a mistake

9 **Using log laws, log 2 + log 5 equals**

- A log 10
- B log 7
- C log 25
- D 2 log 5

Understand It with Pulse | Flag a mistake

10 **The value of $\log_2 1$ is**

A 2

B 1

C 0

D -1

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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