BRITISH COLUMBIA PRE-CALCULUS 12 (MPREC12) · UNIT B · 10 QUESTIONS

Exponential Functions and Logarithms — 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 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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