Al Amal Learning Center

Class 9 Mathematics Chapter 2: Logarithms Exercise 2.2 MCQs – Online Practice | FBISE

Class 9 Mathematics · Chapter 2: Logarithms

Name: _____ Date: _____ Score: _____ / 20

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1. What is the value of log? 243?

A) 4
B) 6
C) 5
D) 81

2. What is the value of log? (1/16)?

A) 2
B) -2
C) -4
D) 1/2

3. 7? = 2401 written in logarithmic form is

A) log? 2401 = 7
B) log???? 7 = 4
C) log? 4 = 2401
D) log? 2401 = 4

4. b^(-3/4) = 1/27 written in logarithmic form is

A) log_b (1/27) = -3/4
B) log_(1/27) b = -3/4
C) log_b (-3/4) = 1/27
D) log?? b = 3/4

5. log? ($x^3 + 1$) = 2 written in exponential form is

A) $2^3 = x^3 + 1$
B) $3^2 = x^3 + 1$
C) $3^{(x^3+1)} = 2$
D) $(x^3 + 1)^2 = 3$

6. What is the value of log?? 10^{12}?

A) 10
B) 120
C) 1
D) 12

7. What is the value of log? 9^{-2}?

A) -2
B) 2
C) -9
D) 1/81

8. What is the value of log? 1 + log? 8?

A) 8
B) 0
C) 1
D) 9

9. What is the value of log?? (1/3)?

A) -1/4
B) 1/4
C) -4
D) 1/3

10. Which of the following is undefined?

A) log? 1
B) log? 2
C) log? 5
D) log? (1/3)

11. Which of the following is undefined?

A) log? 0
B) log? 0.5
C) log? 1
D) log? 16

12. For which value of x is log? (4 - 2x) not defined?

A) x = 0
B) x = 1
C) x = -1
D) x = 2

13. For which value of x is log_x (7 - x) undefined?

A) x = 1
B) x = 3
C) x = 5
D) x = 6

14. Find x if log_x 3 = 1.

A) 1
B) 3
C) 0
D) 1/3

15. Find x if log? x = 4.

A) 12
B) 64
C) 81
D) 7

16. Find x if log? (x + 4) = 2.

A) 8
B) 32
C) 36
D) 40

17. Find x if log? 32 = x - 1.

A) 5
B) 4
C) 6
D) 31

18. Find x if log_(x+1) 16 = 2.

A) 4
B) 3
C) 15
D) -5

19. Find the values of x if log? (x^2 - 1) = 3.

A) x = 3 only
B) x = ±3
C) x = ±?7
D) x = ±9

20. Find y if log_b (y^3 - 1) = log_b 26.

A) 3
B) 25
C) 5
D) 9

Answer key

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

11-A 12-D 13-A 14-B 15-C 16-B 17-C 18-B 19-B 20-A