

Chapter 3. Logarithms

1) In scientific notation 756837 is written as

- A) 7.56837×10^5
- B) 7.56837×10^6
- C) 7.56837×10^2
- D) None of these

Answer: A

2) In ordinary notation of 7.0056×10^{-8} is written as

- A) 0.000000070056
- B) 0.000000070056
- C) 0.00000070056
- D) All of these

Answer: B

3) The logarithm of 1 to any base is

- A) 1
- B) 0
- C) 2
- D) undefined

Answer: B

4) If $\log_7 x = 2$, then $x =$

- A) 50
- B) 49
- C) 3
- D) 4

Answer: B

5) If $\log_4 x = -\frac{3}{2}$, then $x =$

- A) $\frac{1}{2}$
- B) $\frac{1}{8}$
- C) 3
- D) 45

Answer: B

6) $\log_a^{16} = 4$, then $x =$

- A) 2
- B) 3
- C) 4
- D) 32

Answer: A

7) $\log \frac{x^3 y}{z^2} =$

A) $3 \log x + \log y - 2 \log z$

B) $\log x + \log y - \log z$

C) Both A and B

D) None of these

Answer: A

8) The characteristic of 7832.56 is

- A) 4
- B) 3
- C) 2
- D) 1

Answer: B

9) The characteristic of 0.00721 is

- A) $\bar{3}$
- B) $\bar{2}$
- C) $\bar{5}$
- D) $\bar{9}$

Answer: A

10) The natural logarithm has a base

- A) 10
- B) e
- C) 2
- D) 5

Answer: B

11) The common logarithm has a base

- A) e
- B) 10
- C) 4
- D) 5

Answer: B

12) If $\frac{\log_5^3}{\log_5^2} = x$, then $x =$

- A) $\log_2 3 2$
- B) $\log_2 3$
- C) $\log_4 3 2$
- D) None of these

Answer: B