

1. TRUE or FALSE:

$$\log(45.59 + 30.2) = \log(45.59) + \log(30.2)$$

A. True

B. False

2. TRUE or FALSE:

$$\ln(14.81 \cdot 48.45) = \ln(14.81) \cdot \ln(48.45)$$

A. True

B. False

3. Evaluate the logarithmic expression.

$$\ln \sqrt[2]{e^4}$$

A.  $-2$

B.  $-1$

C.  $2$

D.  $-\frac{1}{2}$

E.  $-\frac{3}{2}$

F.  $1$

G.  $\frac{3}{2}$

H.  $\frac{1}{2}$

4. Evaluate the logarithmic expression.

$$\log \sqrt[2]{10}$$

A.  $-2$

B.  $\frac{3}{2}$

C.  $\frac{1}{2}$

D.  $1$

E.  $0$

F.  $-1$

G.  $-\frac{1}{2}$

H.  $2$

5. Evaluate the logarithmic expression.

$$\log 100$$

A.  $-4$

B.  $-1$

C.  $3$

D.  $2$

E.  $-3$

F.  $4$

G.  $1$

H.  $-2$

6. Evaluate the logarithmic expression.

$$\log 10^{12}$$

A.  $18$

B.  $-16$

C.  $15$

D.  $-17$

E.  $\frac{1}{2}$

F.  $12$

G.  $9$

H.  $\frac{2}{5}$

7. Approximate the value of the expression to the nearest hundredth.

$$\ln 26.01$$

A. 3.63

B. 3.26

C. 3.12

D. 2.78

E. 2.78

F. 3.77

G. 2.31

H. 2.71

8. Approximate the value of the expression to the nearest hundredth.

$$\ln (5.16 \times 10^9)$$

A. 23.01

B. 22.36

C. 22.05

D. 22.19

E. 23.18

F. 21.98

G. 22.15

H. 23.12