

Mathematics

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(Chapter – 1) (Number Systems)(Exemplar Problems)

(Class – IX)

Exercise 1.1

Write the correct answer in each of the following:

Question 19:

Value of $\sqrt[4]{81^{-2}}$ is

(A) $\frac{1}{9}$

(B) $\frac{1}{3}$

(C) 9

(D) $\frac{1}{81}$

Answer 19:

(A) $\frac{1}{9}$

Solution:

$$\begin{aligned} & \sqrt[4]{81^{-2}} \\ &= \sqrt[4]{(9^2)^{-2}} \\ &= \sqrt[4]{9^{-4}} \\ &= 9^{-1} \\ &= \frac{1}{9} \end{aligned}$$

