Question Id : T-2021051069   Basic
MCQs   Remembering   **DL:** Easy   **IR :** 1
Question :

Let m > 0 be a real number and a and b be rational numbers. Then

A :

$$m^a \cdot m^b = m^{a-b}$$

B :

$$(m^a)^b = m^{a+b}$$

C :

$$(a^m)(b^m) = (ab)^m$$

D :

$$\frac{m^a}{m^b} = m^{\frac{a}{b}}$$

Question :

Which of the following is equal to b ?

A :

$$b^{\frac{13}{6}} \times b^{\frac{6}{13}}$$

B :

$$(b^{\frac{13}{6}})^{\frac{6}{13}}$$

C :

$(b^{\frac{4}{3}})^{\frac{1}{12}}$

D :

$(b)^{\frac{14}{9}-\frac{4}{9}}$

Question Id : T-2021051074   Basic
MCQs   Analysing   **DL:** Easy   **IR : 2**
Question :

Question:

Which of the following is not equal to $\{(\frac{2}{3})^{\frac{1}{5}}\}^{\frac{1}{4}}$?

A :

$(\frac{2}{3})^{\frac{1}{5}\frac{1}{4}}$

B :

$(\frac{2}{3})^{\frac{1}{20}}$

C :

$(\frac{3}{2})^{-\frac{1}{20}}$

D :

$\{(\frac{2}{3})^{\frac{1}{4}}\}^{\frac{1}{5}}$

Question Id : T-2021051089   Basic
MCQs   Understanding   **DL:** Easy   **IR : 2**
Question :

Which of the following expression is polynomial in one variable?

A :

x-1

B :

x + y + z

C :

y² - 1

D :

x + x - 3

Question Id : T-2021051090   Basic
MCQs   Understanding   **DL:** Easy   **IR :** 1
Question :

Which of the following statements is false?

A :

$x^2 + x$ is a polynomial.

B :

$(1/y) - 1$ is not a polynomial.

C :

The degree of a quadratic polynomial is 2.

D :

5 is a polynomial of degree 1.