

Mathematics

(www.tiwariacademy.net)

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

(Class – IX)

Exercise 1.1

Write the correct answer in each of the following:

Question 14:

After rationalising the denominator of $\frac{7}{3\sqrt{3}-2\sqrt{2}}$, we get the denominator as

- (A) 13 (B) 19 (C) 5 (D) 35

Answer 14:

- (B) 19

Solution:

$$\begin{aligned}\frac{7}{3\sqrt{3}-2\sqrt{2}} &= \frac{7}{3\sqrt{3}-2\sqrt{2}} \times \frac{3\sqrt{3}+2\sqrt{2}}{3\sqrt{3}+2\sqrt{2}} \\ &= \frac{7(3\sqrt{3}+2\sqrt{2})}{27-8} = \frac{7(3\sqrt{3}+2\sqrt{2})}{19}\end{aligned}$$

