

Mathematics

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(Chapter – 1) (Real Numbers)(Exemplar Problems)
(Class – X)

Exercise 1.1

Choose the correct answer from the given four options in the following questions:

Question 8:

The product of a non-zero rational and an irrational number is

- (A) always irrational (B) always rational
(C) rational or irrational (D) one

Answer 8:

- (A) Always irrational

Solution:

Product of a non-zero rational and an irrational number is always irrational.

For example:



$\frac{3}{4}$ is a rational and $\sqrt{2}$ is irrational number but their product is an irrational number.

$$\frac{3}{4} \times \sqrt{2} = \frac{3\sqrt{2}}{4}$$

