

Mathematics

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

(Class – IX)

Exercise 1.2

Question 1:

Let x and y be rational and irrational numbers, respectively. Is $x + y$ necessarily an irrational number? Give an example in support of your answer.

Answer 1:

Yes. As the sum of a rational and an irrational number is always an irrational number.

For example:

Let $x = 3$ and $y = \sqrt{3} = 1.73205 \dots \dots$, then sum is $3 + \sqrt{3}$

$= 3 + 1.73205 \dots \dots$

$= 4.73205 \dots \dots$

which is an irrational number.

