

# Mathematics

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

(Class – IX)

## Exercise 1.2

### Question 2:

Let  $x$  be rational and  $y$  be irrational. Is  $xy$  necessarily irrational? Justify your answer by an example.

### Answer 2:

No.

For example:

Let  $x = 0$  and  $y = \sqrt{3}$ , then  $xy = 0 \times \sqrt{3} = 0$

Which is a rational number.

