

# Mathematics

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(Chapter – 4) (Linear Equations in two Variables)(Exemplar Problems)  
(Class – IX)

## Exercise 4.1

Write the correct answer in each of the following:

### Question 17:

How many linear equations in x and y can be satisfied by  $x = 1$  and  $y = 2$ ?

(A) Only one      (B) Two      (C) Infinitely many      (D) Three

### Answer 17:

(C) Infinitely many

### Solution:

There are infinite number of linear equation which satisfies  $x = 1$  and  $y = 2$ .

For example:

$$x + y = 3$$

$$2x + y = 4$$

$$x + 2y = 5$$

$$3x + y = 5$$

$$x + 5y = 11 \text{ and so on.}$$

