

# Mathematics

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

## Exercise 4.2

Write whether the following statements are True or False? Justify your answers:

### Question 1:

The point (0, 3) lies on the graph of the linear equation  $3x + 4y = 12$ .

### Answer 1:

True

### Justification:

The given equation is  $3x + 4y = 12$ .

If the point (0, 3) lies on the graph of the linear equation  $3x + 4y = 12$ , the point must satisfy the equation.

LHS

$$= 3x + 4y$$

$$= 3 \times 0 + 4 \times 3 \quad [ \text{Putting the value of } x \text{ and } y ]$$

$$= 12$$

$$= \text{RHS}$$

