

## EXERCISE 4.4

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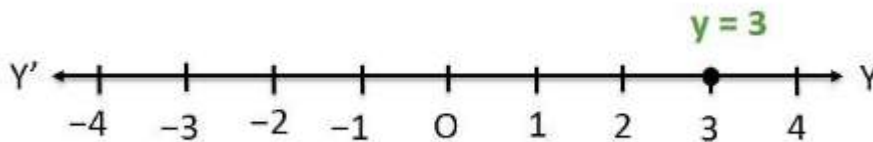
1. Give the geometric representations of  $y = 3$  as an equation

(i) in one variable

(ii) in two variables

Solution:

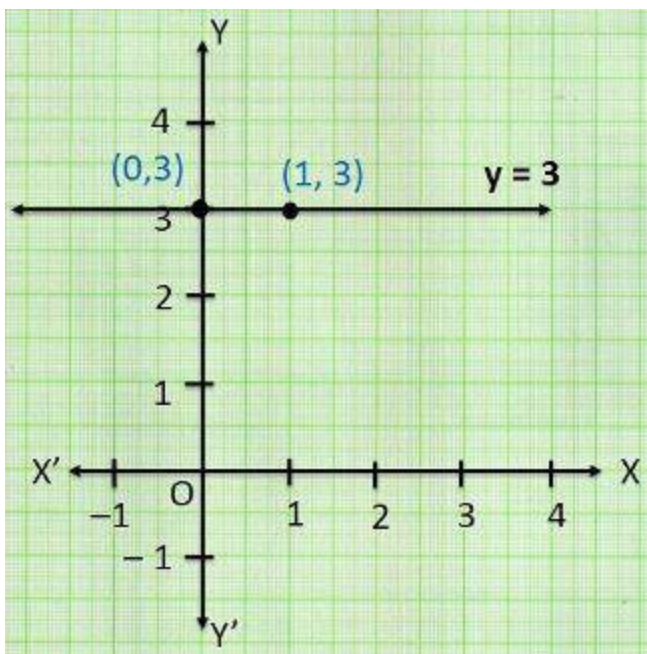
1. In one variable,  $y = 3$



(ii) In two variables,  $0x + y = 3$

When  $x = 0$ ,  $y = 3$

When  $x = 1$ ,  $y = 3$



2. Give the geometric representations of  $2x + 9 = 0$  as an equation

(i) in one variable

(ii) in two variables

Solution:

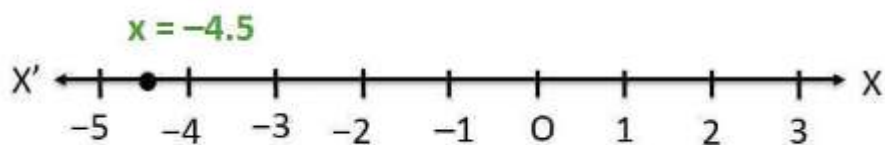
(i) In one variable,

$$2x + 9 = 0$$

$$2x = -9$$

$$x = -9/2$$

$$x = -4.5$$



(ii) In two variables,

$$2x + 9 = 0$$

$$2x + 0y + 9 = 0$$

When  $y = 0$ ,  $x = -4.5$

When  $y = 1$ ,  $x = -4.5$

