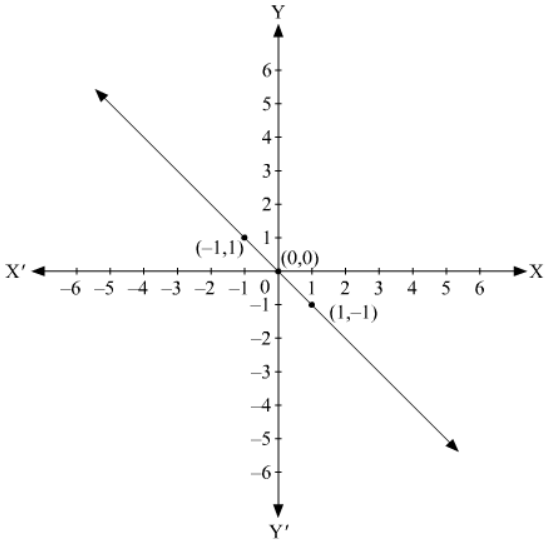
Linear Equations in Two Variables Ex 13.3 Q7

Answer :

We are given co-ordinates (1, –1) and (–1, 1) as the solution of one of the following equations.
We will substitute the value of both co-ordinates in each of the equation and find the equation which satisfies the given co-ordinates.



Linear Equations in Two Variables Ex 13.3 Q8

(i) We are given,

$y = x$

Substituting $x = 1$ and $y = -1$, we get

$1 \neq -1$

L.H.S $\neq$ R.H.S

Substituting $x = -1$ and $y = 1$, we get

$-1 \neq 1$

L.H.S $\neq$ R.H.S

Therefore, the given equation $y = x$ does not represent the graph in the figure.

(ii) We are given,

$x + y = 0$

Substituting $x = 1$ and $y = -1$, we get

$1 + (-1) = 0$

$0 = 0$

L.H.S=R.H.S

Substituting $x = -1$ and $y = 1$, we get

$(-1) + 1 = 0$

$0 = 0$

L.H.S=R.H.S

Therefore, the given solutions satisfy this equation. Thus, it is the equation whose graph is given.

********** END **********