

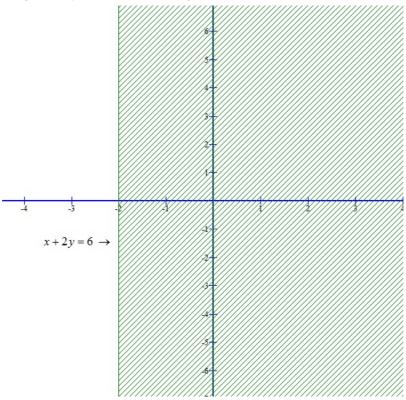
Linear Inequations Ex 15.5 Q3 We have,

$$x + 2 \ge 0$$
.....(i)

Converting the inequation into equation, we obtain, x=-2. Clearly, it is a line parallel to y-axis. This line divides the xy – plane in two parts. One part on the LHS of x=-2 and the other on its RHS.

Putting x = 0 in the inequation(i), we get  $2 \ge 0$ 

we find that the point (0,0) satisfies the inequality. So, the region represented by the given inequation is the shaded region shown below:



Linear Inequations Ex 15.5 Q4

We have

$$x-2y<0$$

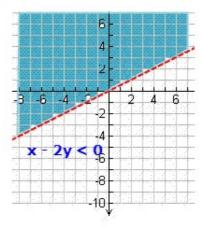
x-2y < 0Converting the inequation into eqaution, we obtain, x < 2y

To determine the region represented by the given inequality consider the point o(0,0)

Putting x = 0 and y = 0 in equation we have

It is not possibvle. Clearly o(0,0) does not satisfy the inequality.

So, the region represented by the given inequation is the shadd region shown below:



\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*