

## Related Problems with Solutions

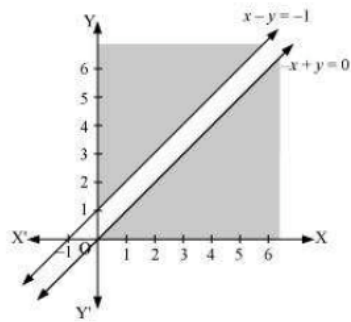
### Problem 4:

#### Question 10:

Maximise  $Z = x + y$ , subject to  $x - y \leq -1$ ,  $-x + y \leq 0$ ,  $x, y \geq 0$ .

Answer

The region determined by the constraints,  $x - y \leq -1$ ,  $-x + y \leq 0$ ,  $x, y \geq 0$ , is as follows.



There is no feasible region and thus,  $Z$  has no maximum value.