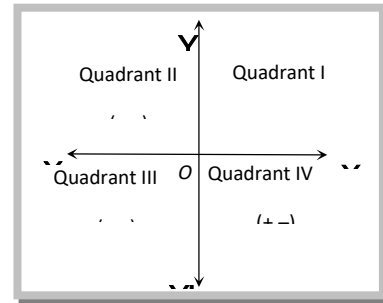


## Introduction

Co-ordinates of a point are the real variables associated in an order to a point to describe its location in some space. Here the space is the two dimensional plane. The work of describing the position of a point in a plane by an ordered pair of real numbers can be done in different ways.

The two lines  $XOX'$  and  $YOY'$  divide the plane in four quadrants.  $XOY$ ,  $YOX'$ ,  $X'OY'$ ,  $Y'OX$  are respectively called the first, the second, the third and the fourth quadrants. We assume the directions of  $OX$ ,  $OY$  as positive while the directions of  $OX'$ ,  $OY'$  as negative.



<i>Quadrant</i>	<b>x-coordinate</b>	<b>y-coordinate</b>	<b>point</b>
First quadrant	+	+	(+,+)
Second quadrant	-	+	(-,+)
Third quadrant	-	-	(-,-)
Fourth quadrant	+	-	(+,-)