

Pair of Linear Equations in Two varibles Ex 3.2 Q23 **Answer:**

(i) The given equations are

$$y = x$$
(i)

$$y = 2x$$
(ii)

$$y + x = 6$$
(iii)

The two points satisfying (i) can be listed in a table as,

x	0	1
y	0	1

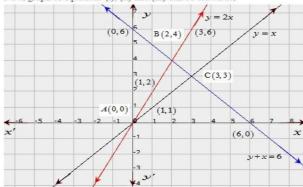
The two points satisfying (ii) can be listed in a table as,

x	1	3
у	2	6

The two points satisfying (iii) can be listed in a table as,

x	0	6
у	6	6

Now, graph of equations (i), (ii) and (iii) can be drawn as,



It is seen that the coordinates of the vertices of the obtained triangle are A(0,0), B(2,4), C(3,3)

(ii) The given equations are

$$y = x$$
(i)

$$3y = x$$
(ii)

$$x + y = 8$$
(iii)

The two points satisfying (i) can be listed in a table as,

x	0	2
y	0	2

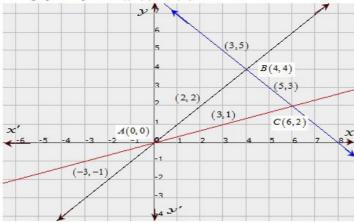
The two points satisfying (ii) can be listed in a table as,

x	3	-3
y	1	-1

The two points satisfying (iii) can be listed in a table as,

x	3	5
y	5	3

Now, graph of equations (i), (ii) and (iii) can be drawn as,



It is seen that the coordinates of the obtained triangle are A(0,0), B(4,4), C(6,2)

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