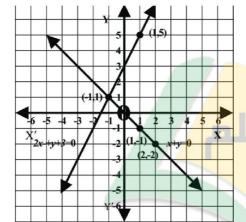
Exercise 8.3

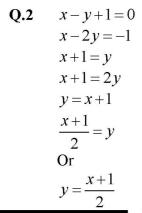
Q.1
$$x+y=0$$
—(I) and
$$2x-y+3=0$$
—(II) From equation II
$$y=-x$$
$$2x-y+3=0$$
$$2x+3=y$$
$$y=2x+3$$

X	y = -x	(x,y)
1	-1(1) = -1	(1,-1)
2	-(2)=-2	(2,-2)

х	y = 2x + 3	(x,y)
1	2(1)+3=5	(1,5)
-1	2(-1)+3=1	(-1,1)

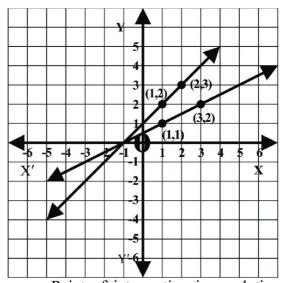


The point of intersection is a solution set **Solution Set** = $\{(-1,1)\}$



x	y = x+1	(x,y)
1	1+1 = 2	(1,2)
2	2+1 = 3	(2,3)

x	$y = \frac{x+1}{2}$	(x,y)
1	$\frac{1+1}{2} = \frac{2}{2} = 1$	(1,1)
3	$\frac{3+1}{2} = \frac{4}{2} = 2$	(3,2)



Point of intersection is a solution

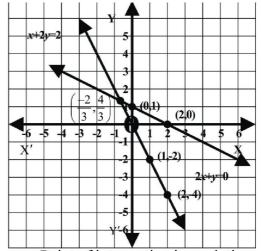
set

Solution Set = $\{(-1,0)\}$

Q.3
$$2x + y = 0$$
$$x + 2y = 2$$
$$y = -2x$$
$$2y = 2 - x$$
$$y = \frac{2 - x}{2}$$

Ž	x	y = -2x	(x,y)
A COL	1	-2(1)=-2	(1,-2)
	2	-2(2)=-	(2,-4)

x	$y = \frac{2 - x}{2}$	(<i>x</i> , <i>y</i>)
0	$\frac{2-0}{2} = \frac{2}{2} = 1$	(0,1)
2	$\frac{2-2}{2} = \frac{0}{2} = 0$	(2,0)



Point of intersection is a solution

Solution Set = $\left(\frac{-2}{3}, \frac{4}{3}\right)$

$$x - y + 1 = 0$$

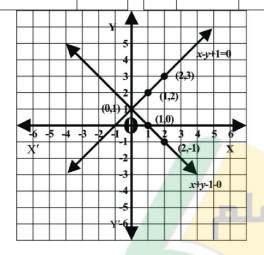
$$y=1-x$$

$$x+1=y$$

$$x + 1 = y$$
 Or $y = x + 1$

х	y = 1-x	x,y
1	1-1=0	(1,0)
2	1-2 = -1	(2,-1)

x	y = x+1	$x_{2}y$
1	1+1 = 2	(1,2)
2	2+1 = 3	(2,3)



Point of intersection is a solution

set

Solution Set =
$$\{(0,1)\}$$

Q.5
$$2x + y - 1 = 0$$

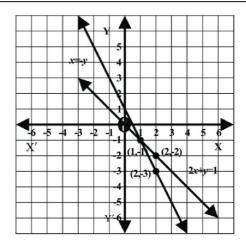
$$x = -y$$

$$y=1-2x$$

$$y = -x$$

x	y = 1 - 2x	(x,y)
1	1-2(1)=-1	(1,-1)
2	1-2(2) = -3	(2,-3)

x	y = -x	(x,y)
1	-(1) = -1	(1,-1)
2	-(2) = -2	(2,-2)



Point of intersection is a solution

set

Solution Set =
$$\{(1,-1)\}$$

Last Updated: September 2020

Report any mistake at freeilm786@gmail.com