

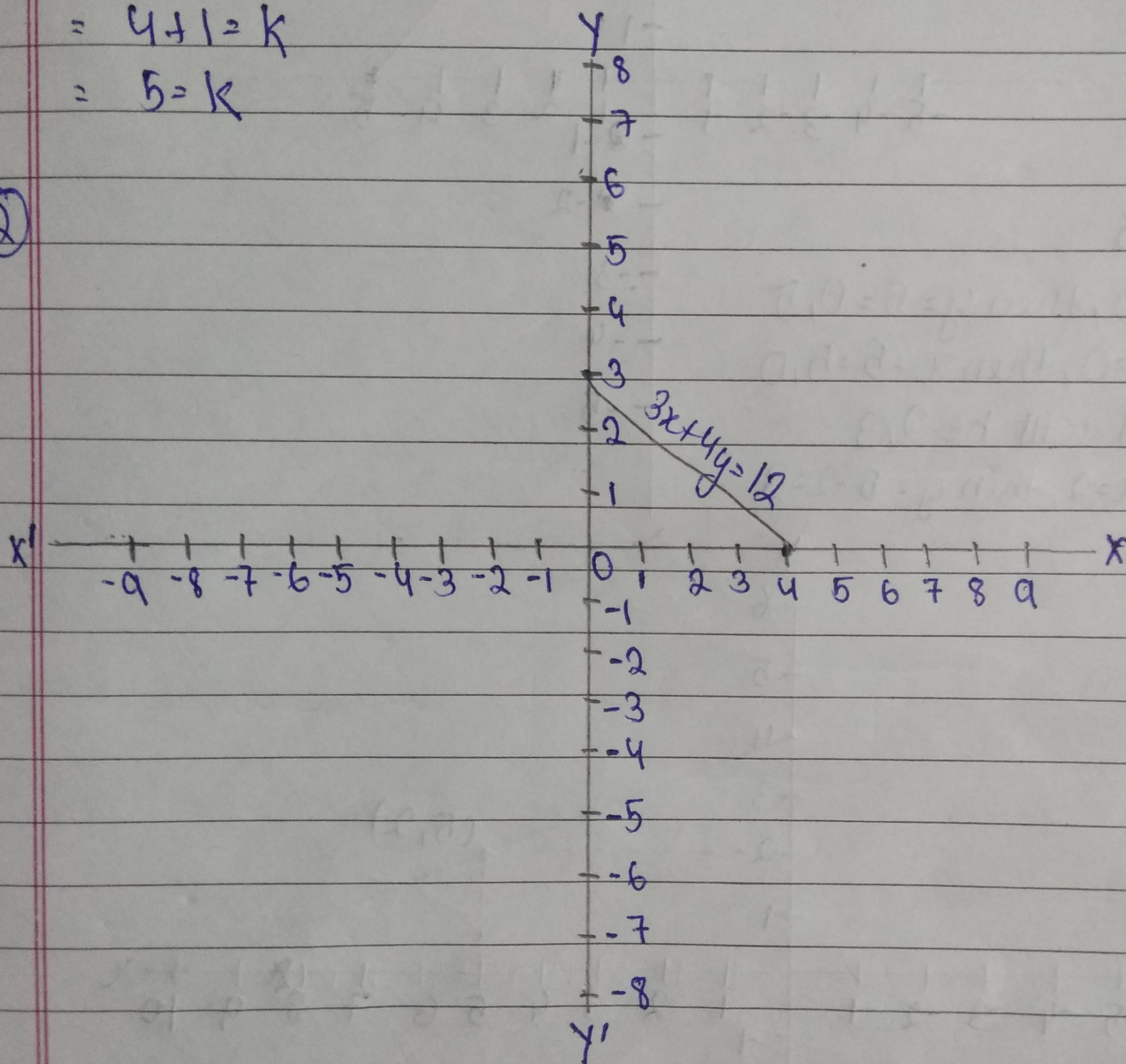
- ① Equation =  $2x + 3y = k$   
 Values given  $x = 2, y = 1$   
 value of  $k =$

$$2(2) + 3(1) = k$$

$$= 4 + 3 = k$$

$$= 7 = k$$

②



•  $3x + 4y = 12$

• for  $x \Rightarrow x = \frac{12 - 4y}{3}$

• for  $y \Rightarrow y = \frac{12 - 3x}{4}$

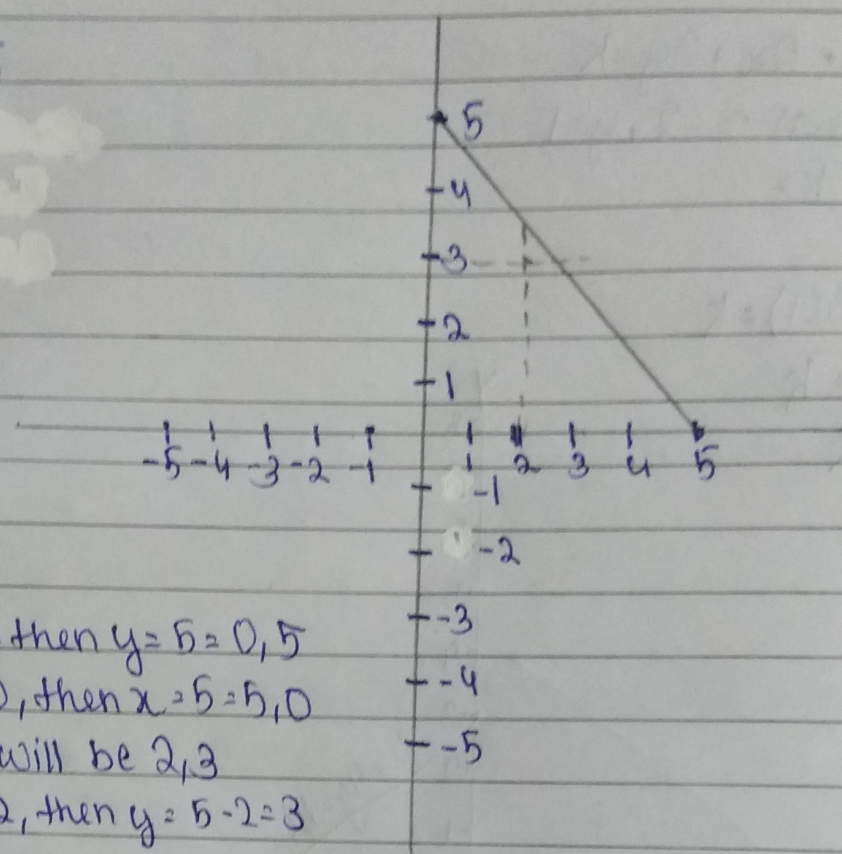
if  $y = 0$ , then  $x = \frac{12}{3} = 4$

if  $x = 0$ , then  $y = \frac{12}{4} = 3$

•  $= 4, 0$

$= 0, 3$

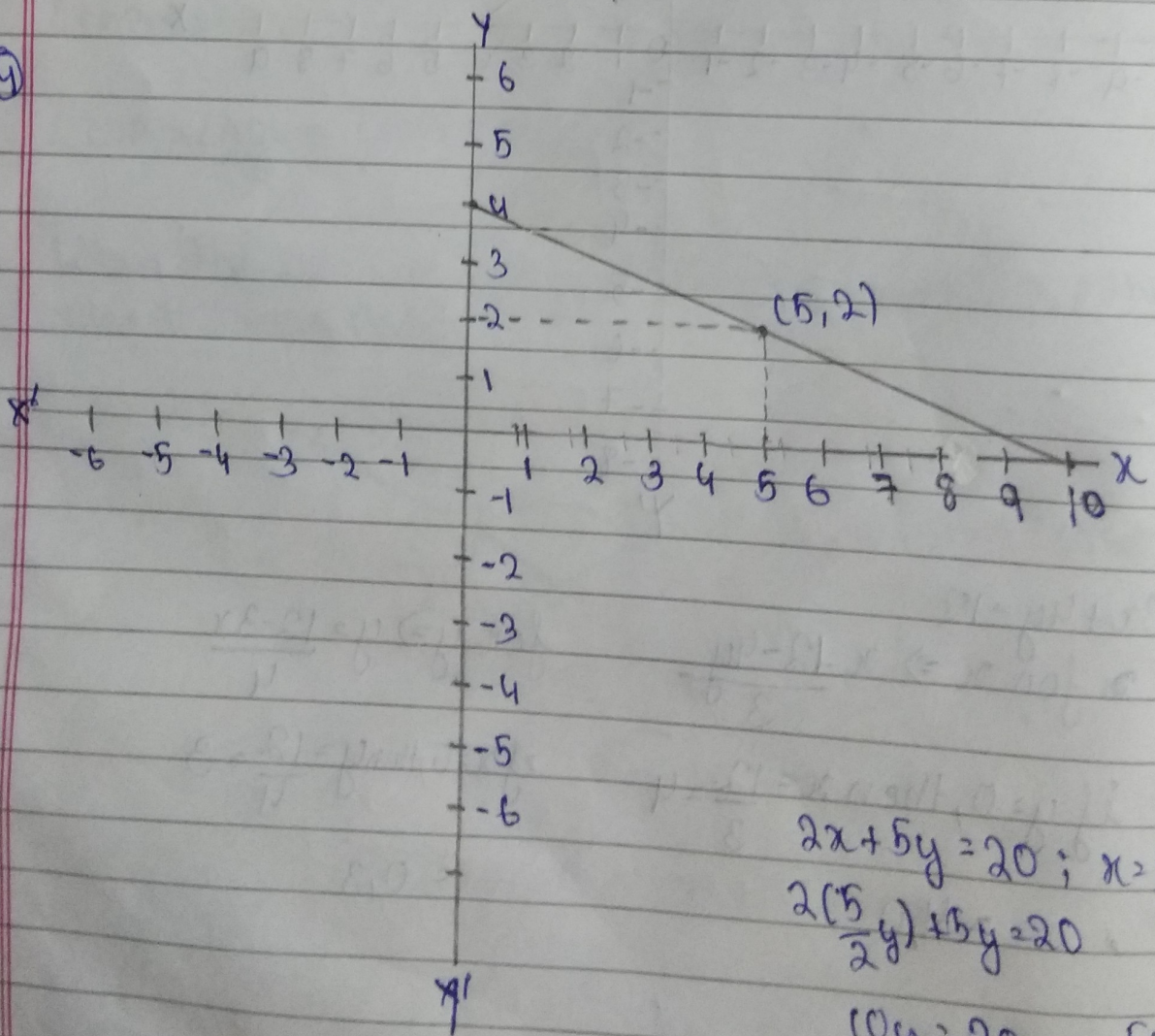
③  $x + y = 5$



$x + y = 5$

if  $x = 0$ , then  $y = 5 - 0 = 5$   
 if  $y = 0$ , then  $x = 5 - 0 = 5$   
 point will be 2, 3  
 if  $x = 2$ , then  $y = 5 - 2 = 3$

④



$$2x + 5y = 20; \quad x = \frac{5}{2}y$$

$$2\left(\frac{5}{2}y\right) + 5y = 20$$

$$10y = 20 \quad x = \frac{5}{2} \cdot \frac{2}{1} = 5$$

$$y = 2 \quad \frac{2}{1} = 2$$

$$2 \cdot 5 = 10$$

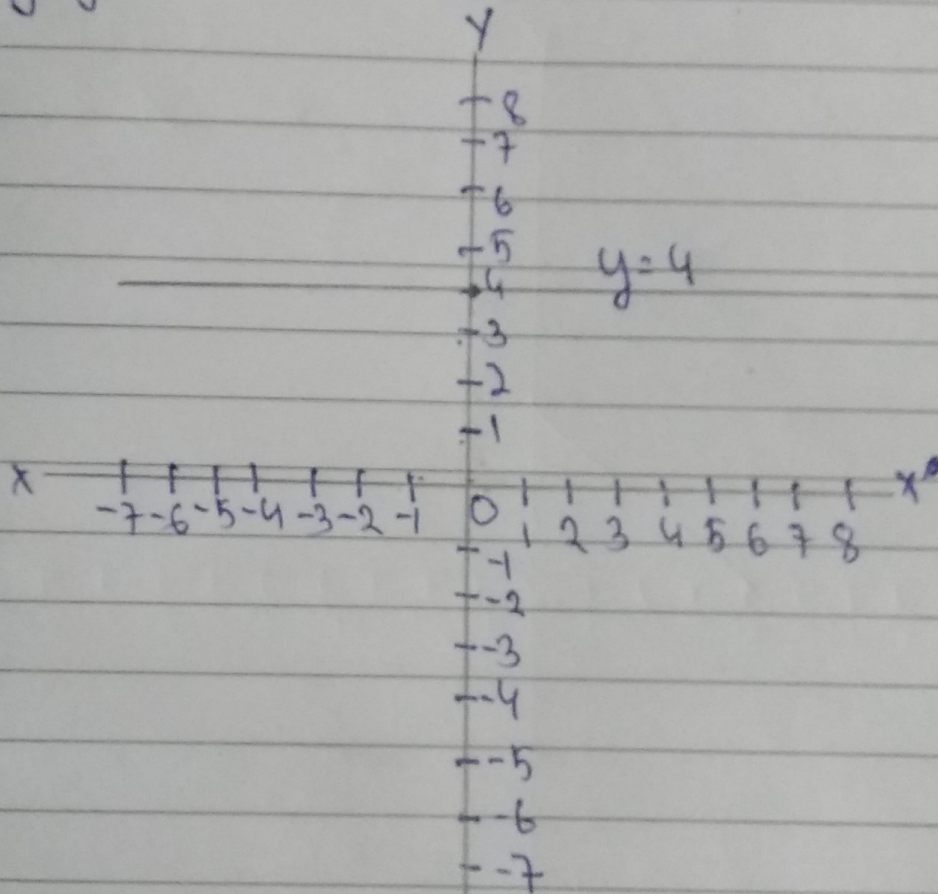
required point =  $x=5, y=2$

$$2x + 6y = 20$$

if  $x=0$  then  $y=4 = 0, 4$

if  $y=0$ , then  $x=10$

⑤



⑥

