

Homework

① Given equation,

$$2x + 3y = k$$

Now, putting $x=2$ & $y=1$ in equation,

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

$$\Rightarrow 4 + 3 = k$$

$$\Rightarrow \boxed{k=7}$$

② $3x + 4y = 12$

the point on y-axis

Let $x=0$, so $3(0) + 4y = 12$, $4y = 12$, $y = 3$

point is $(0, 3)$.

the point on x-axis.

Let $y=0$, so, $3x + 4(0) = 12$, $3x = 12$, $x = 4$,

point is $(4, 0)$

③ $(2, 3)$ in 1st quadrant.

④ A/O,

$$x = \frac{5y}{2}$$

$$2x + 3y = 20$$

$$2\left(\frac{5y}{2}\right) + 3y = 20$$

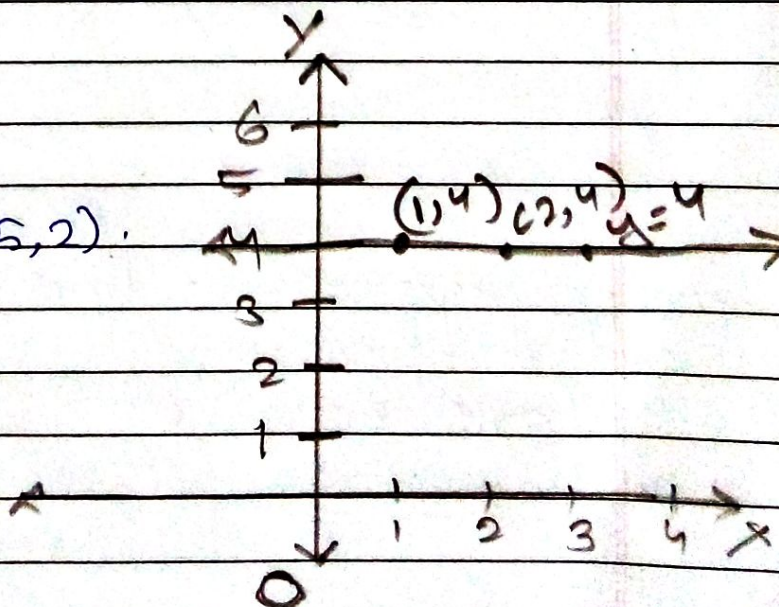
$$10y = 20$$

$$y = 2$$

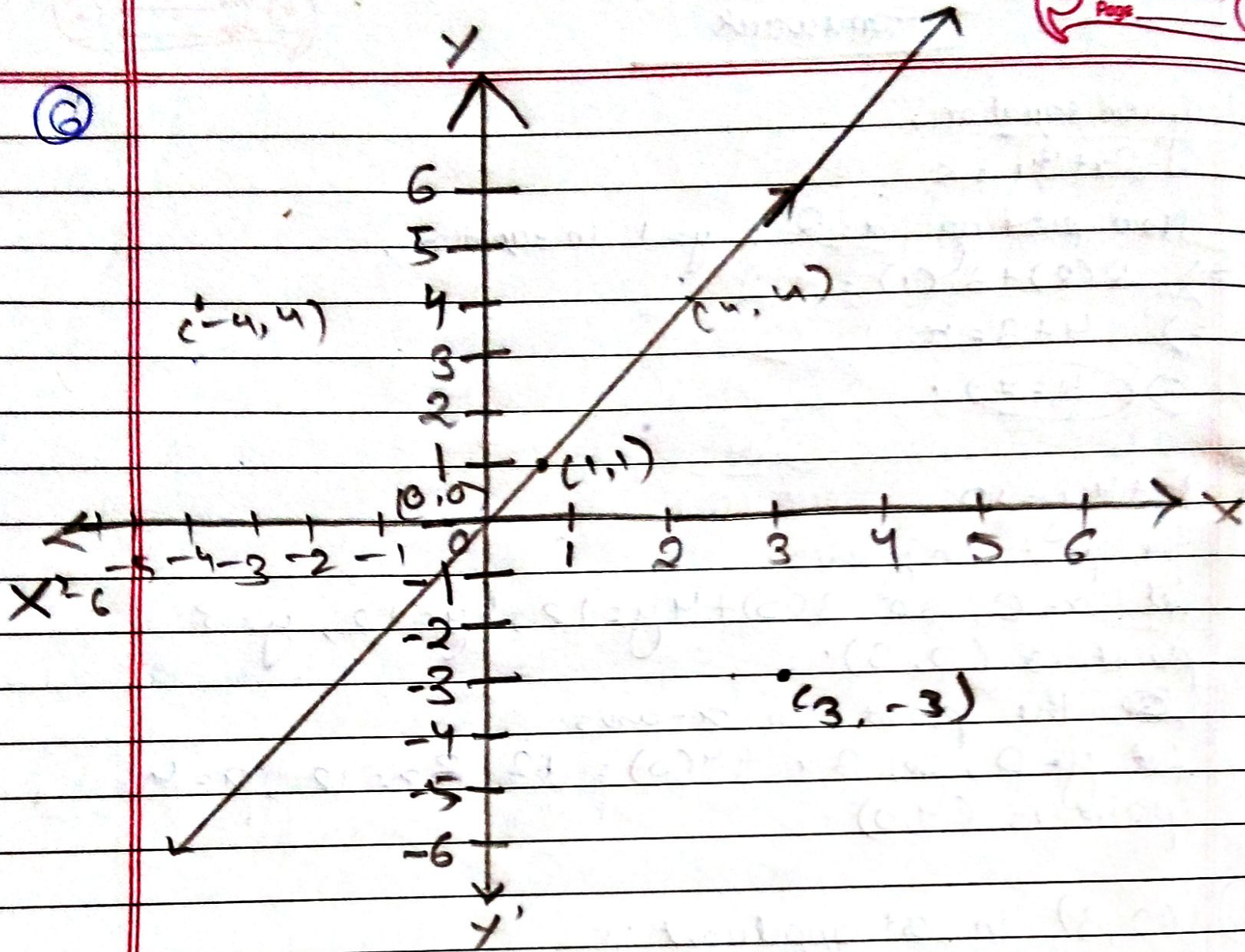
$$x = 5$$

Therefore, point is $(5, 2)$.

⑤



⑥



→ x