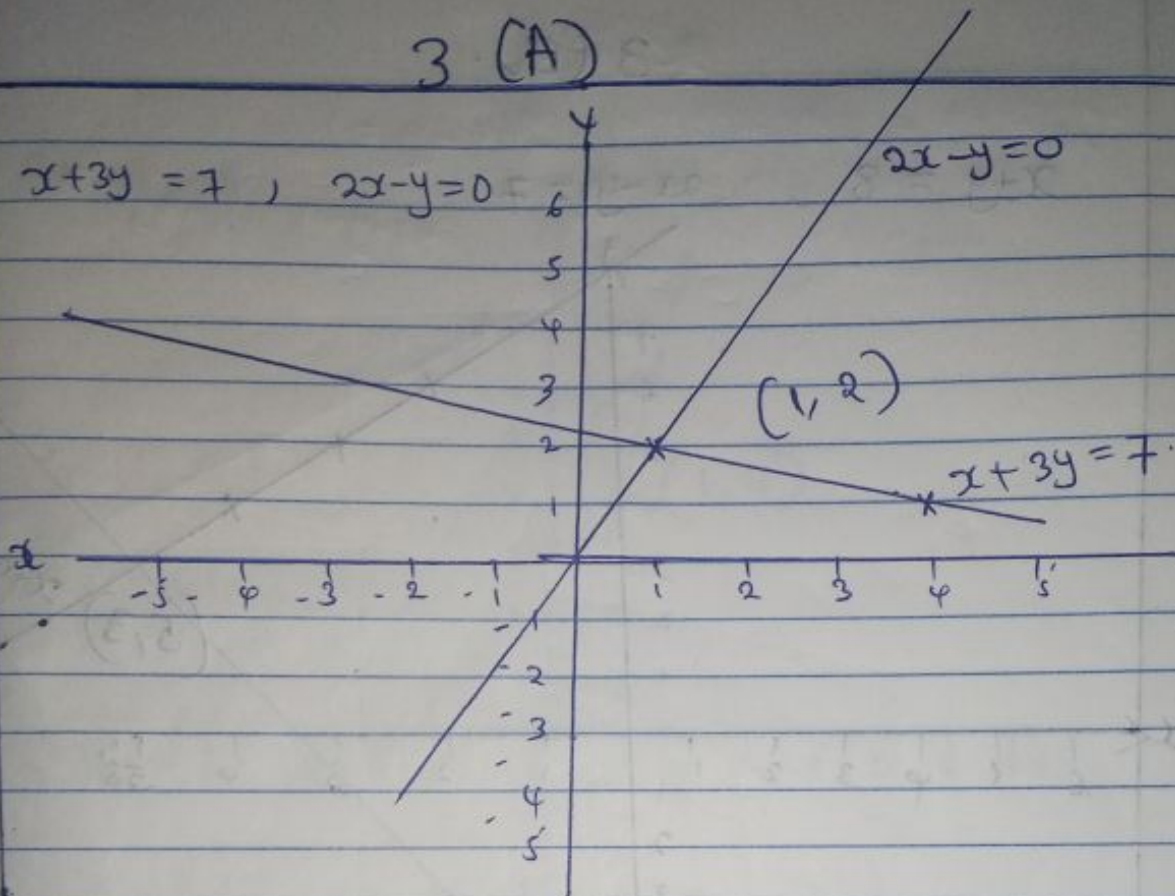


3 (A)



Using algebra.

$$x + 3y = 7 \quad 3y = 7 - x \quad y = \frac{7}{3} - \frac{x}{3}$$

$$2x - y = 0 \quad y = 2x$$

$$3 \times 2x = \frac{7}{3} \times 3 - \frac{x}{3} \times 3$$

$$6x = 7 - x$$

$$7x = 7 \quad x = 1$$

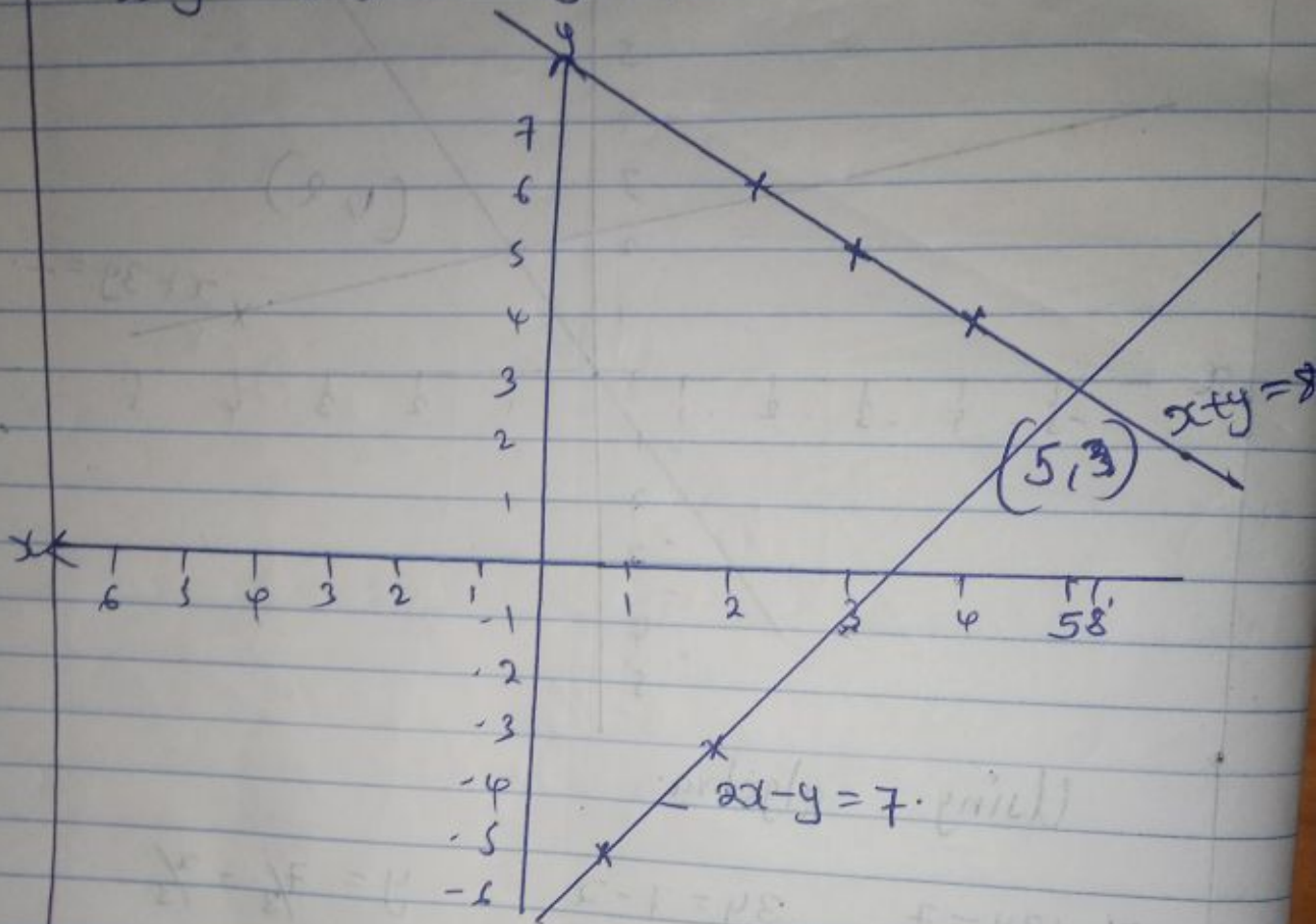
$$y = 2(1) \quad y = 2$$

$$= (1, 2)$$

3 (B) . 8

$$x + y = 8$$

$$2x - y = 7$$



$$y = 8 - x$$

$$y = 2x - 7$$

$$8 - x = 2x - 7$$

$$15 = 3x$$

$$x = 5$$

$$y = 8 - 5$$

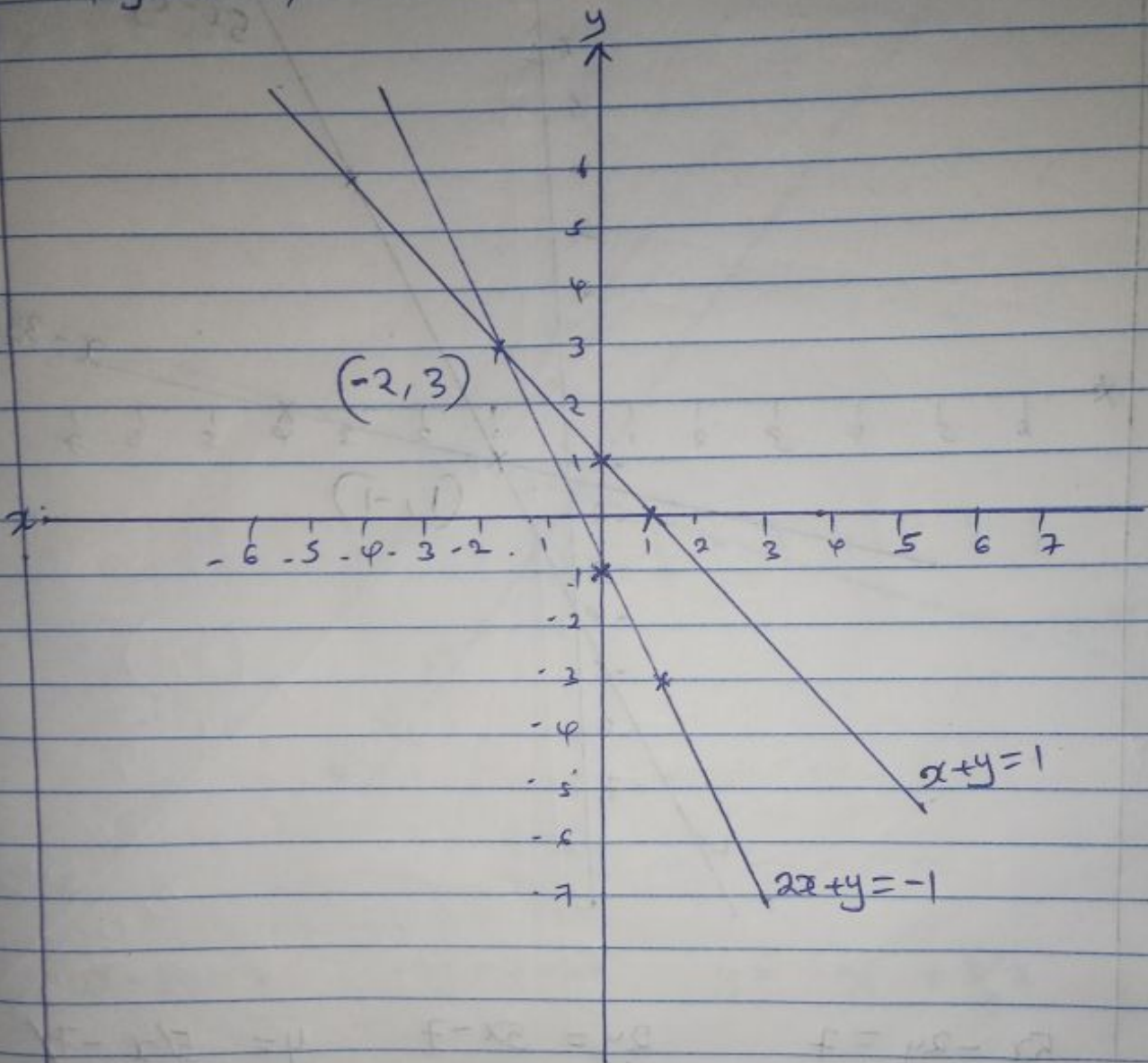
$$y = 3$$

$$(5, 3)$$

3 e

$$x + y = 1$$

$$2x + y = -1$$



$$x + y = 1 \quad y = 1 - x$$

$$2x + y = -1 \quad y = -1 - 2x$$

$$1 - x = -1 - 2x$$

$$2 = -x \quad x = -2$$

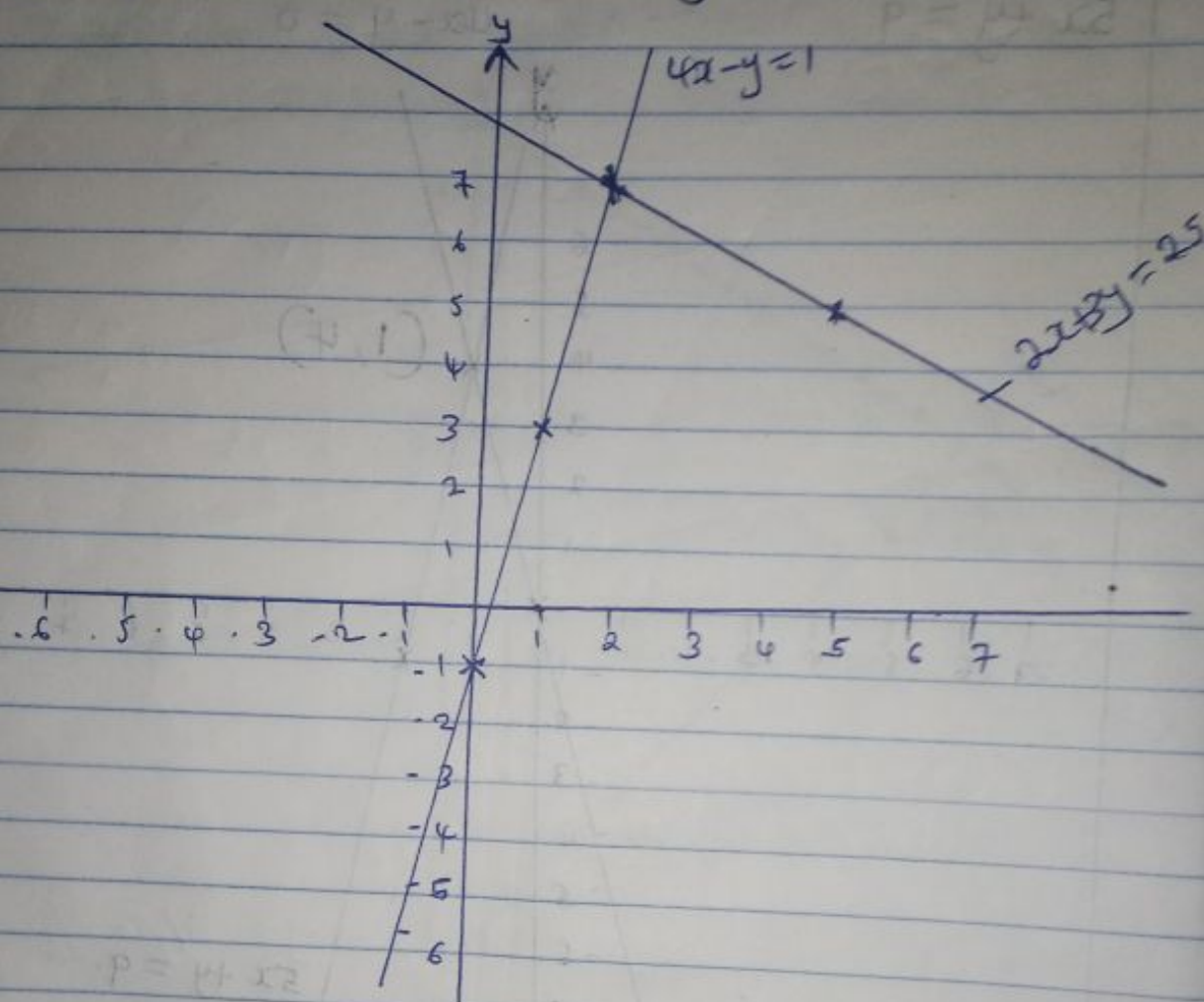
$$y = 1 - (-2) \quad y = 3$$

$$(-2, 3)$$

3d

$$2x + 3y = 25$$

$$4x - y = 1$$



$$3y + 2x = 25$$

$$3y = 25 - 2x$$

$$y = \frac{25}{3} - \frac{2}{3}x$$

$$4x - y = 1$$

$$y = 4x - 1$$

$$\left(\frac{25}{3} - \frac{2}{3}x\right)^3 = (4x - 1)^3$$

$$25 - 2x = 12x - 3$$

$$28 = 14x$$

$$x = 2$$

$$y = 4(2) - 1$$

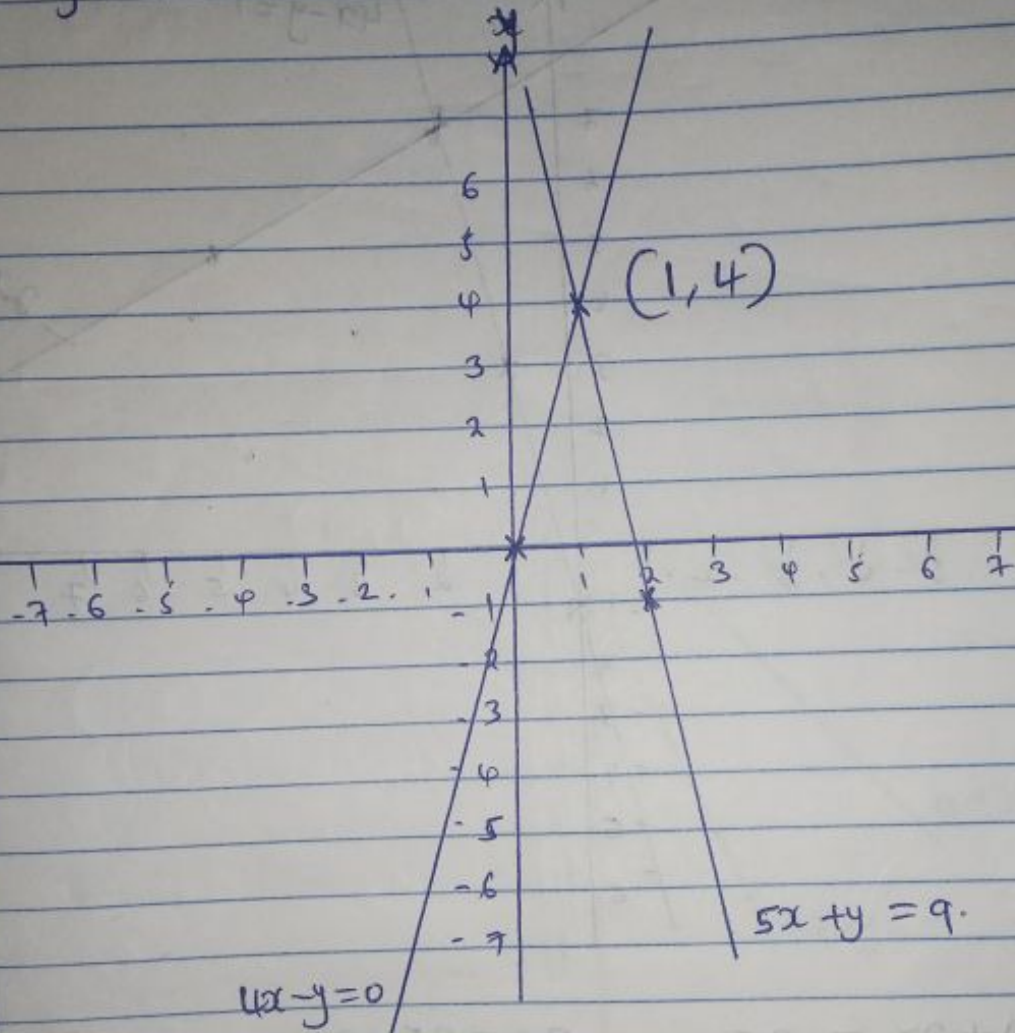
$$y = 7$$

$$(2, 7)$$

3 C

$$5x + y = 9$$

$$4x - y = 0$$



$$5x + y = 9$$

$$y = 9 - 5x$$

$$4x - y = 0$$

$$y = 4x$$

$$4x = 9 - 5x$$

$$9x = 9$$

$$x = 1$$

$$y = 4(1)$$

$$y = 4$$

$$= (1, 4)$$

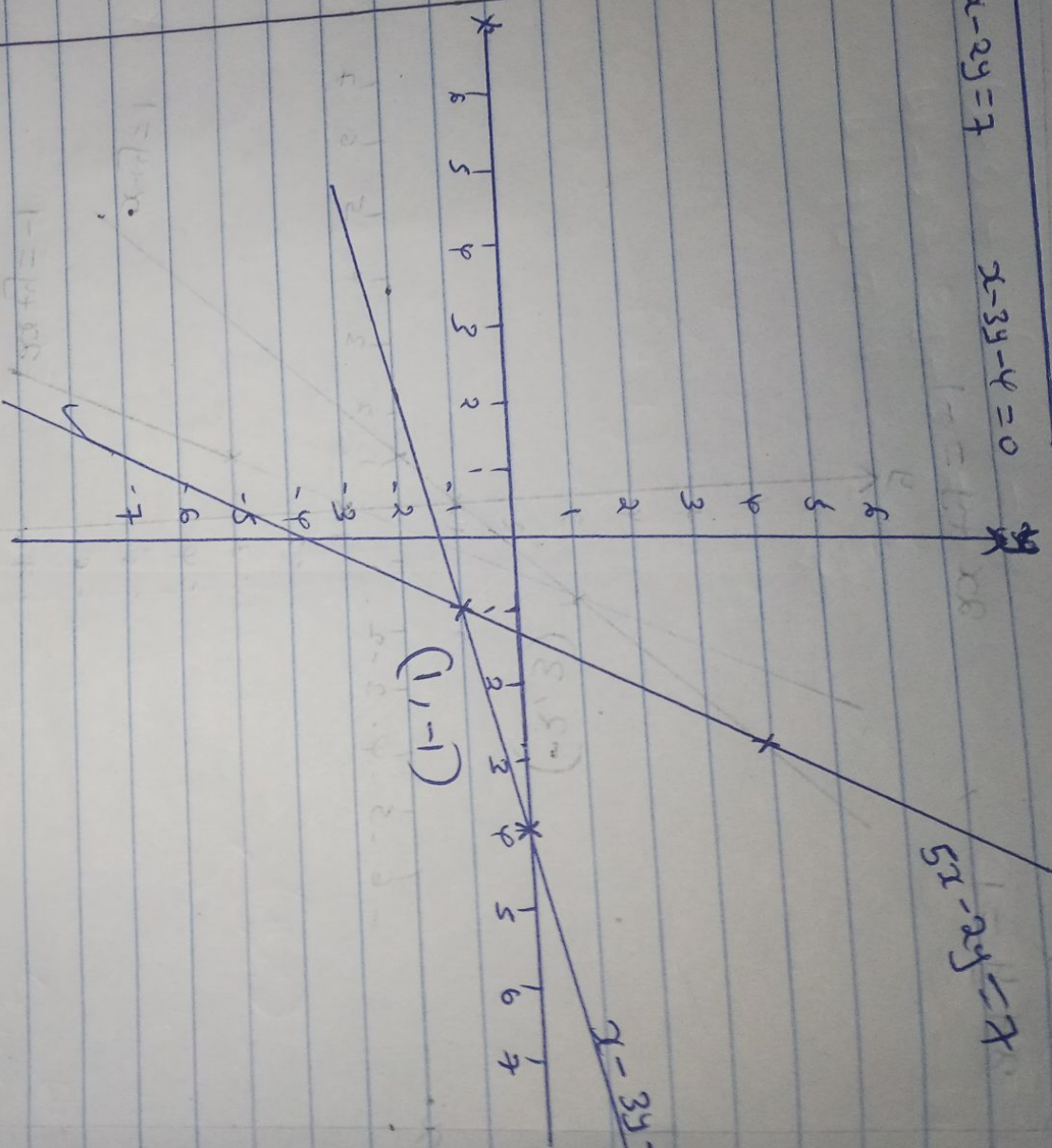
3 F

$$5x - 2y = 7$$

$$x - 3y - 4 = 0$$

$$5x - 2y = 7$$

$$x - 3y - 4 = 0$$



$$5x - 2y = 7$$

$$2y = 5x - 7$$

$$y = \frac{5}{2}x - \frac{7}{2}$$

$$x - 3y - 4 = 0$$

$$x - 3y = 4$$

$$3y = x - 4$$

$$y = \frac{x}{3} - \frac{4}{3}$$

$$\frac{5}{2}x - \frac{7}{2} = \frac{x}{3} - \frac{4}{3}$$

$$15x - 21 = 2x - 8$$

$$13x = 13$$

$$x = 1$$

$$y = \frac{5}{2} \cdot (1) - \frac{7}{2}$$

$$= -1$$

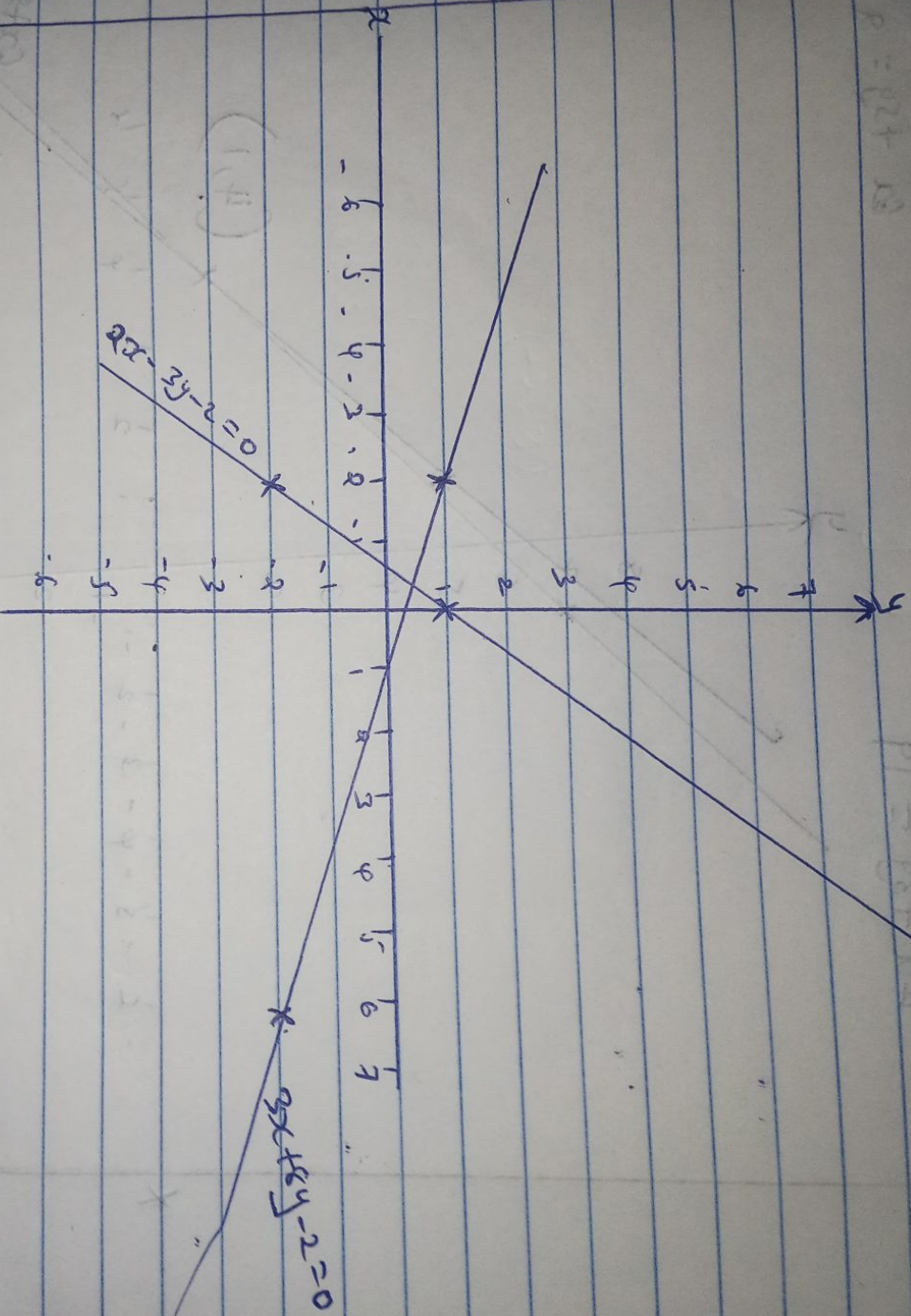
$$y = -1$$

$$(1, -1)$$

39.13

$$2x - 3y - 2 = 0$$

$$3x + 8y - 2 = 0$$



$$2x - 3y = 2$$

$$-3y = 2 - 2x$$

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

$$3x + 8y - 2 = 0$$

$$3x + 8y = 2$$

$$8y = 2 - 3x$$

$$-\frac{2}{8} + \frac{3}{8}x = \frac{2}{8} - \frac{3}{8}x$$

$$-16 + 16x = 16 - 16x$$

$$25x = 22$$

$$x = \frac{22}{25}$$

Bh

$$4(x-3) + 3(y+1) = 10$$

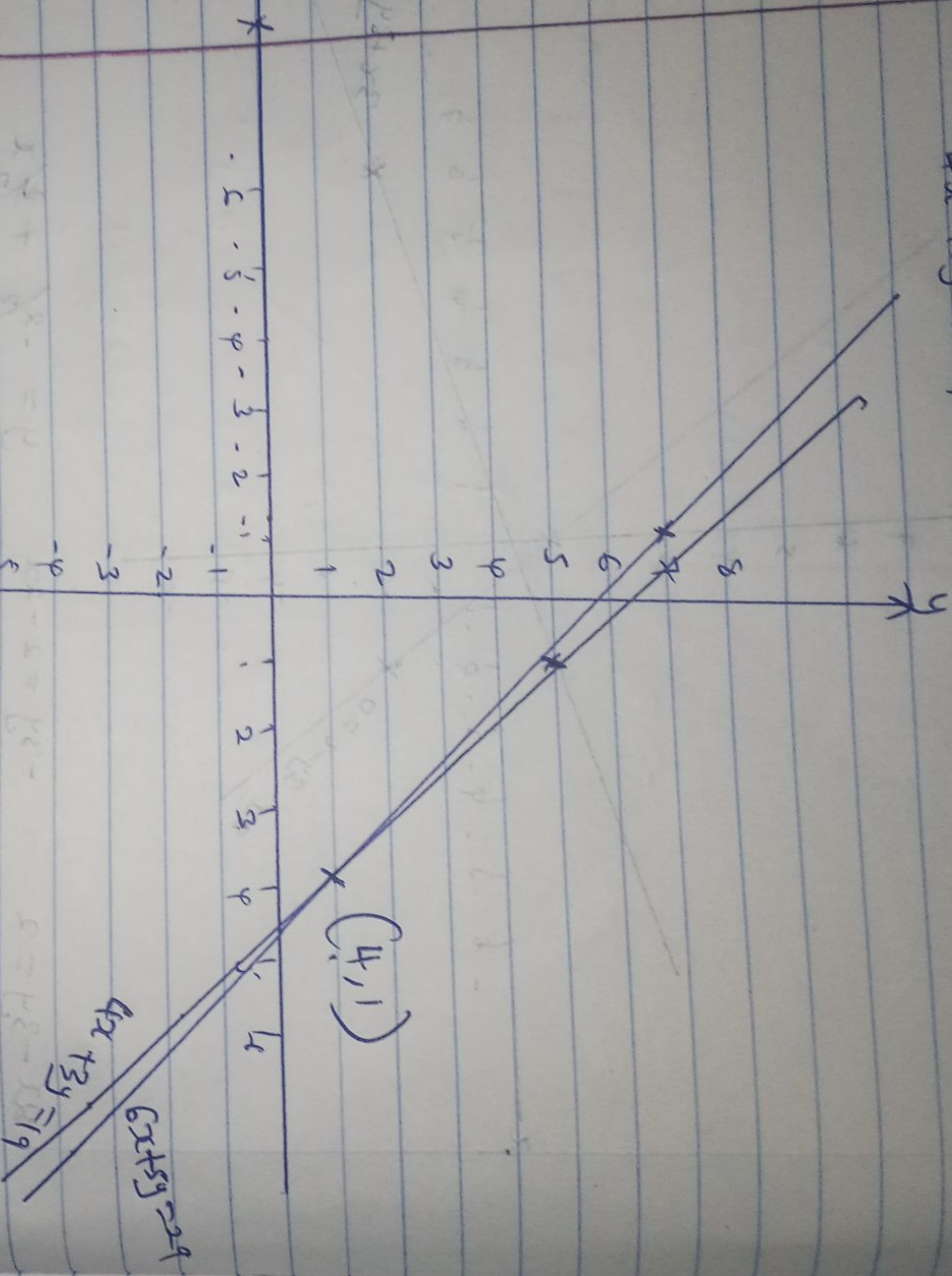
$$4x - 12 + 3y + 3 = 10$$

$$4x + 3y = 19$$

$$6(x-4) + 5y = 5$$

$$6x - 24 + 5y = 5$$

$$6x + 5y = 29$$



$$3y = 19 - 4x$$

$$y = \frac{19}{3} - \frac{4}{3}x$$

$$5y = 29 - 6x$$

$$\frac{19}{3} - \frac{4}{3}x = \frac{29}{5} - \frac{6}{5}x$$

$$29y = 29 - 6x$$

$$95 - 20x = 87 - 18x$$

$$8 = 2x$$

$$= (4, 1)$$

$$x = 4$$

$$2y = 3 \quad y = 1$$