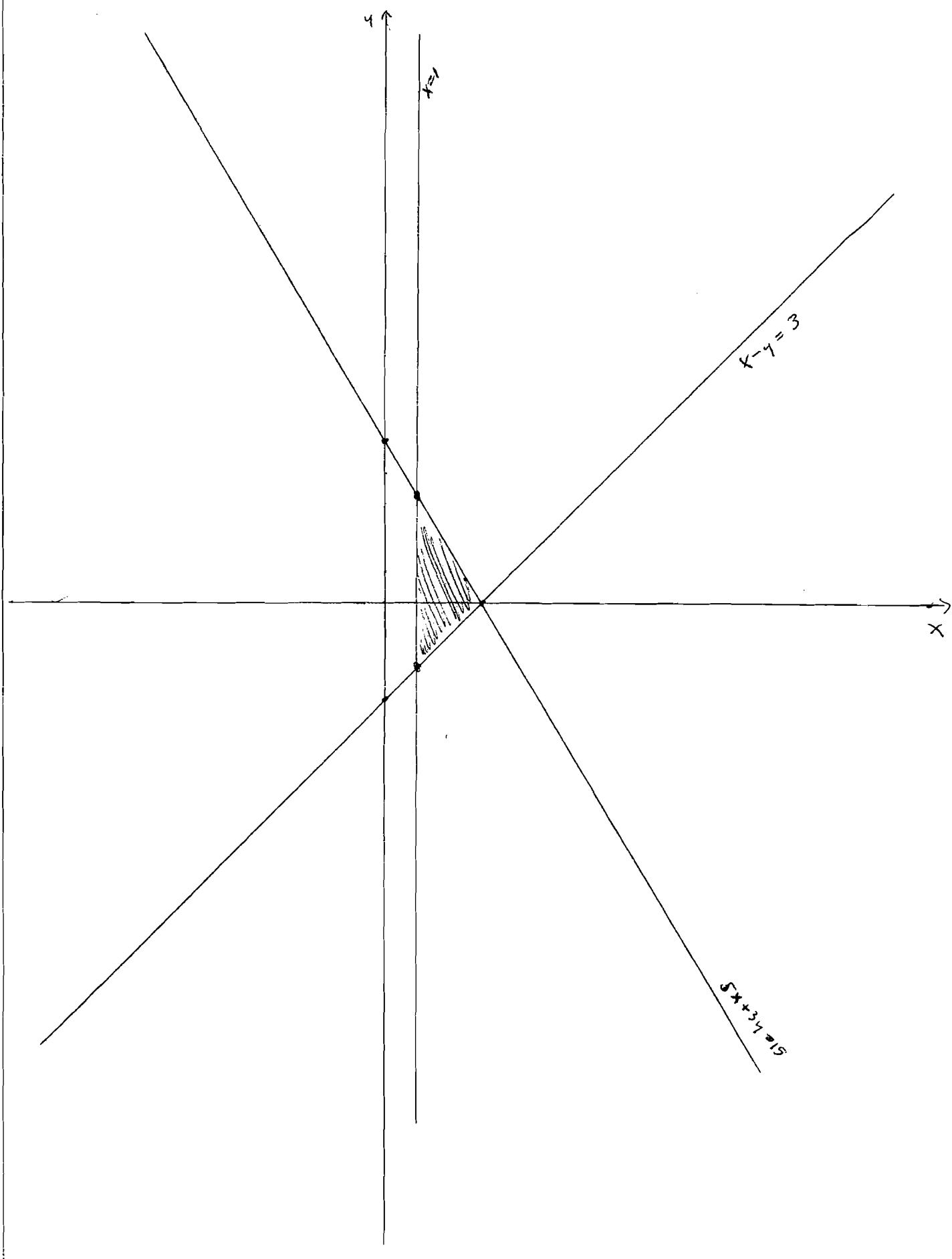
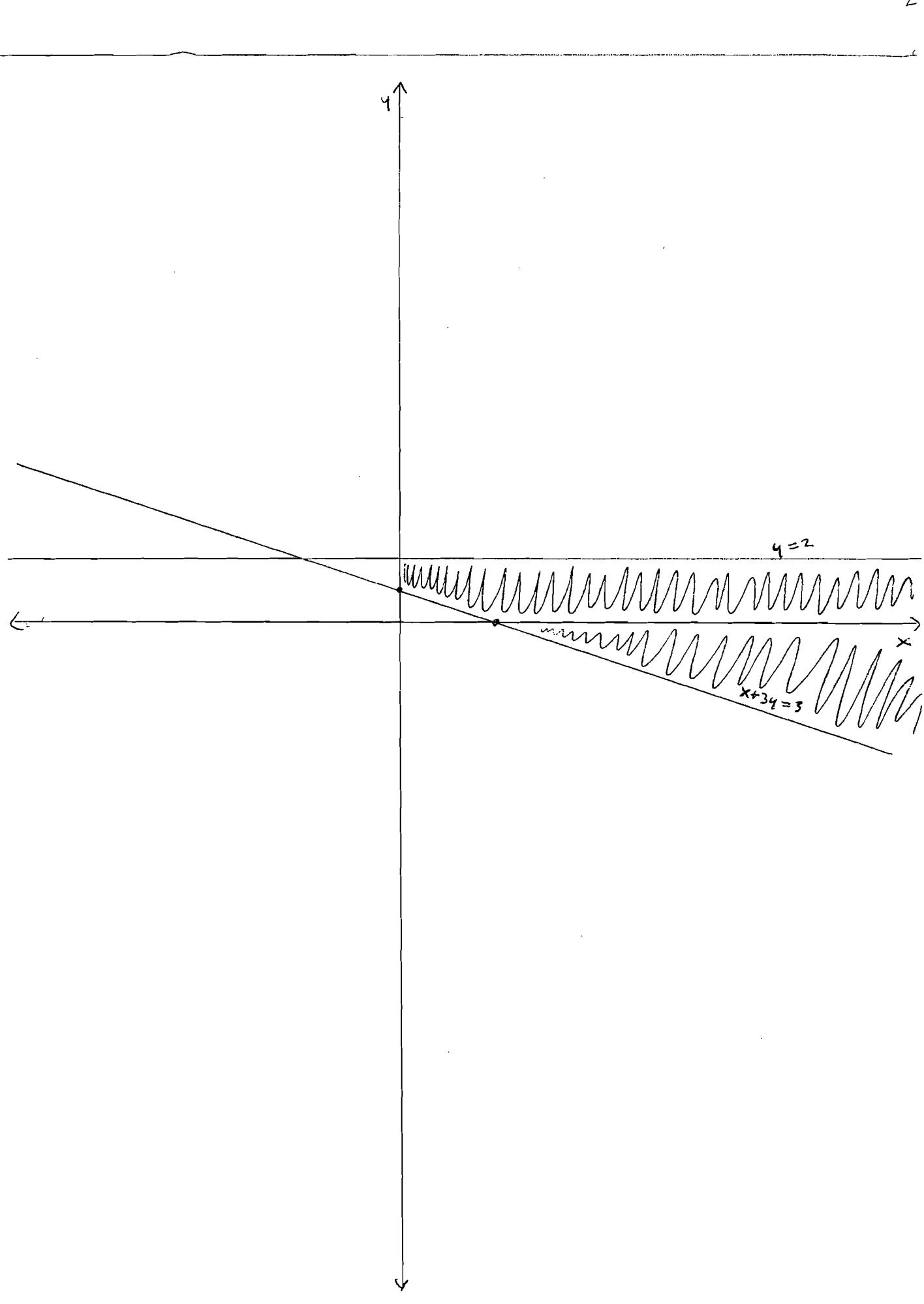
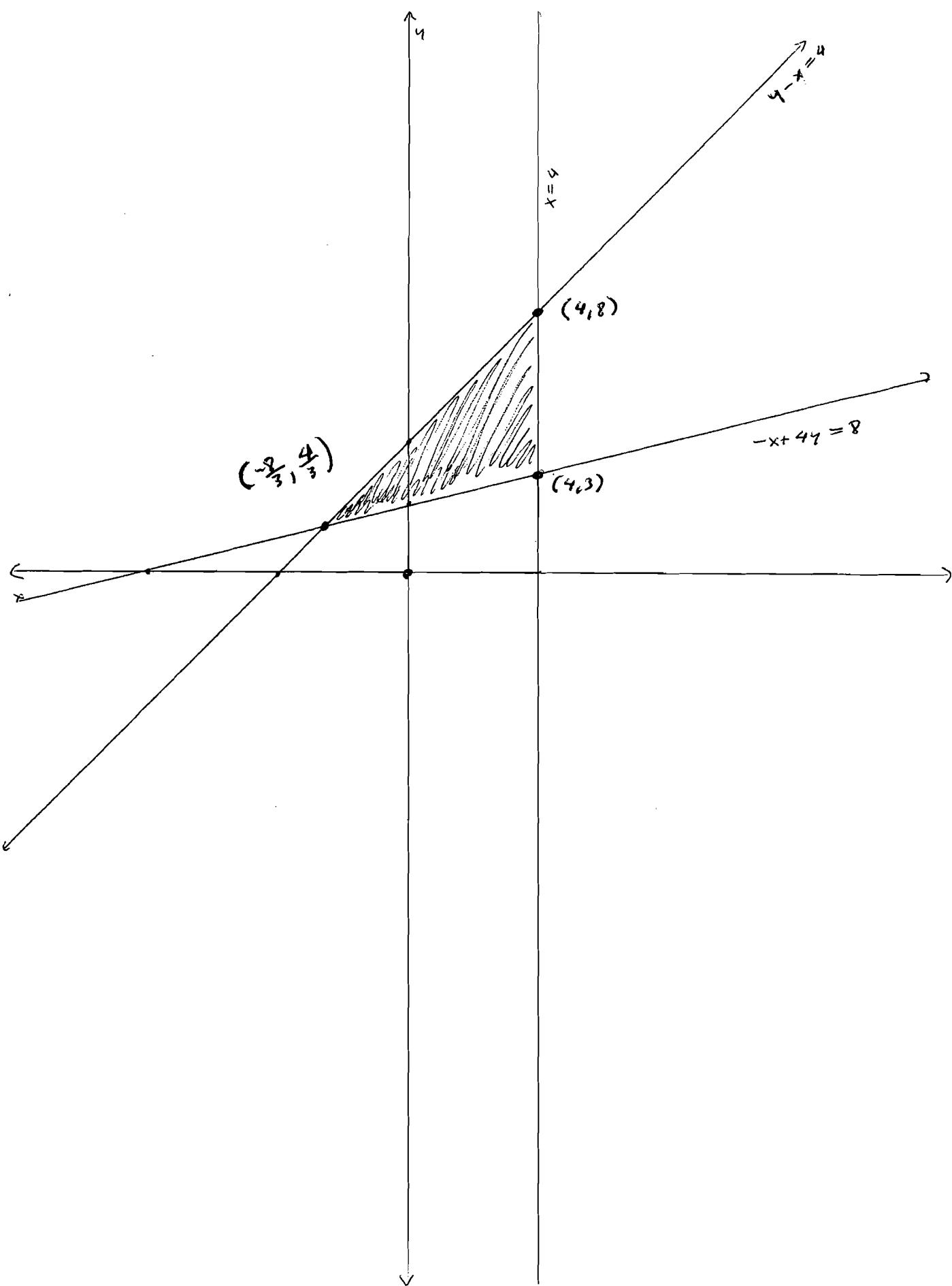


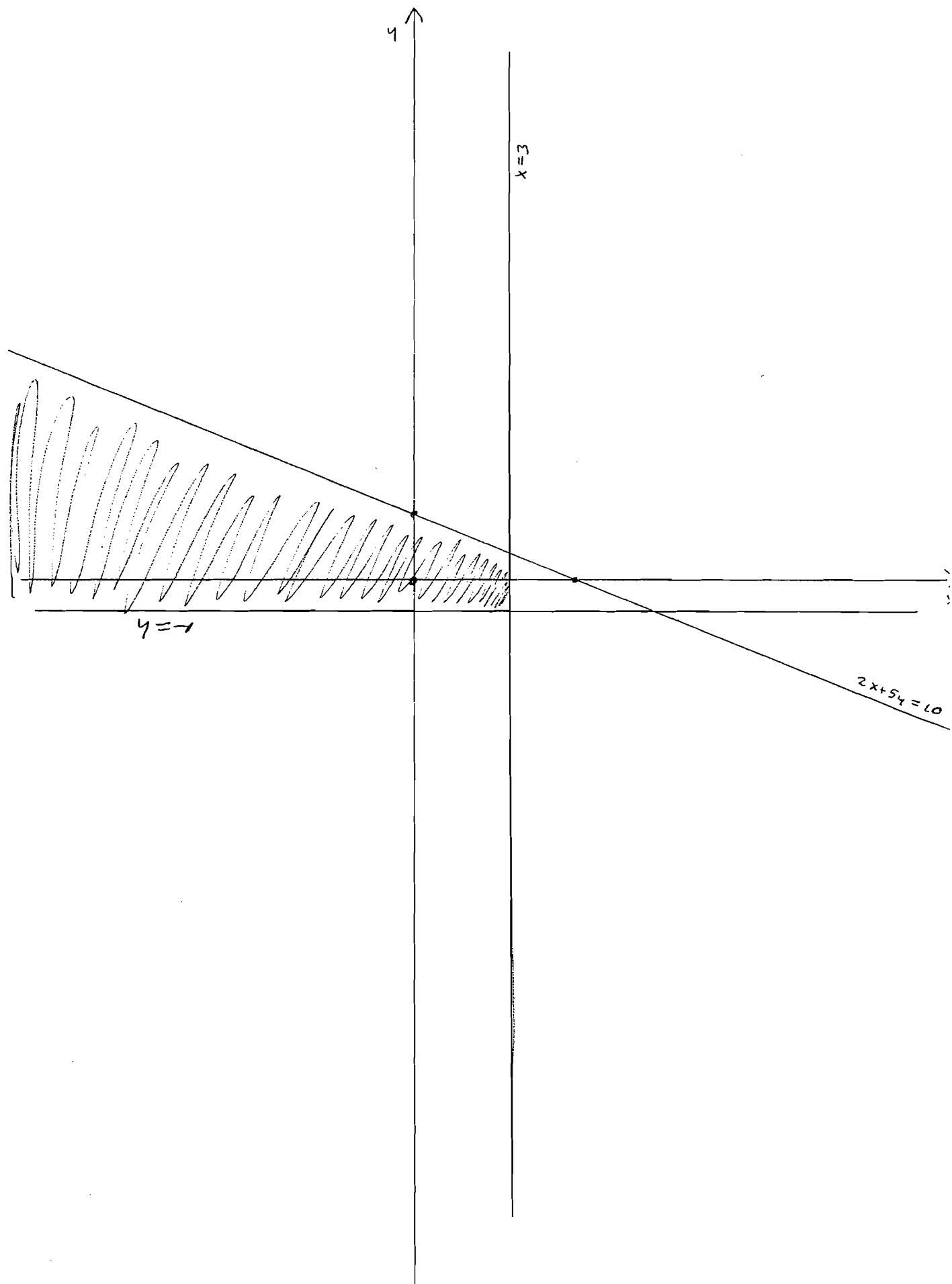
Problem

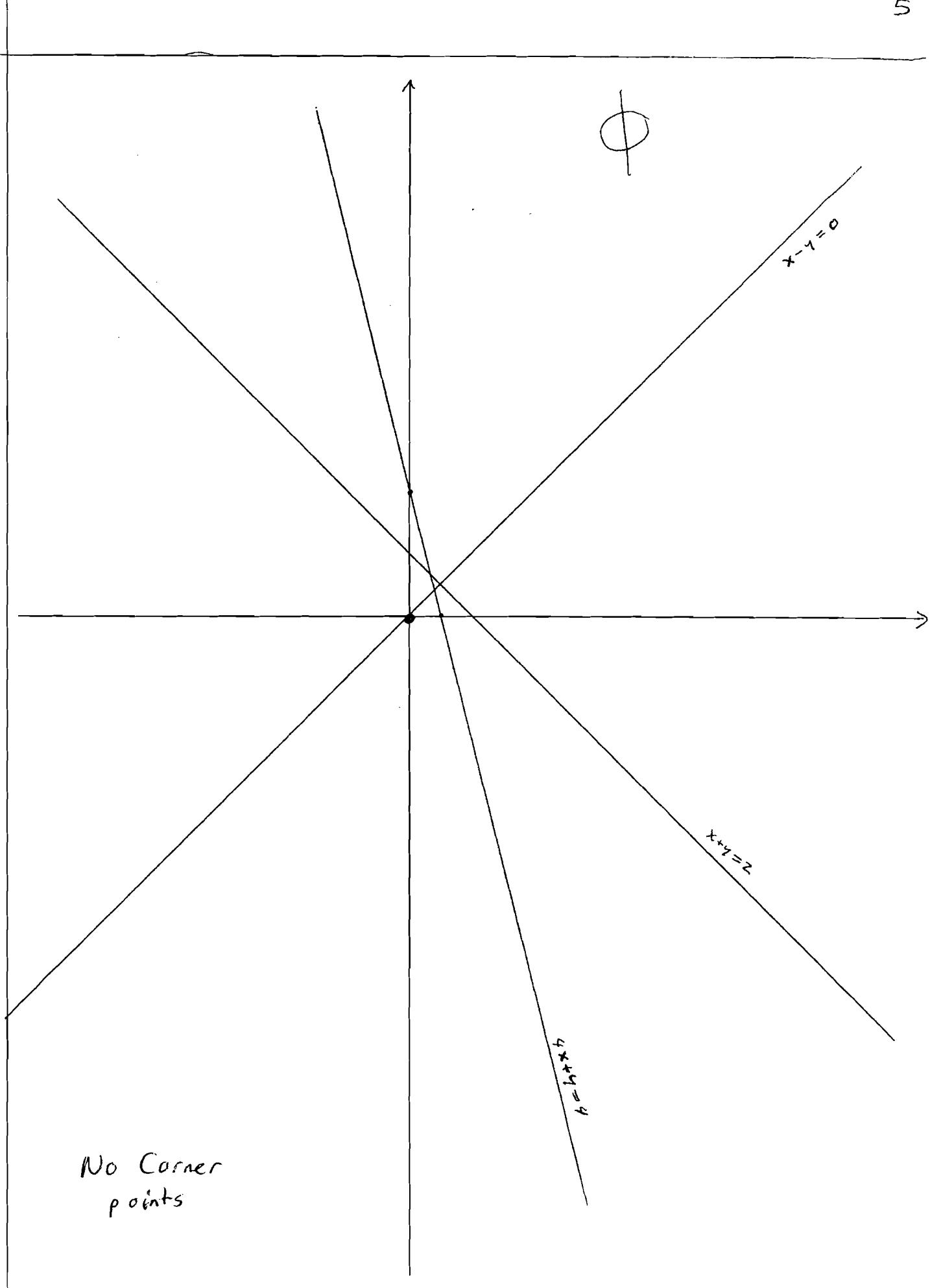


Problem

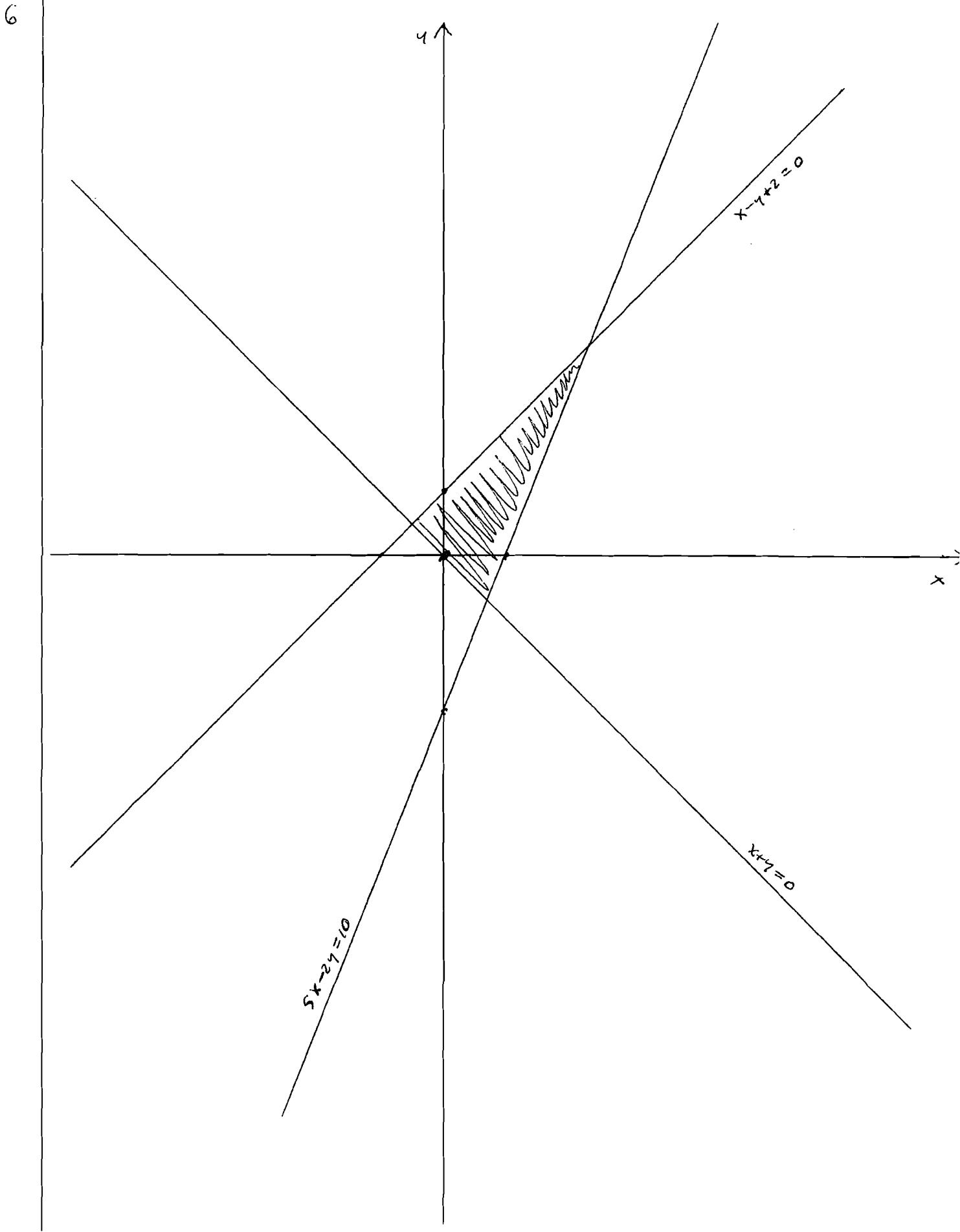




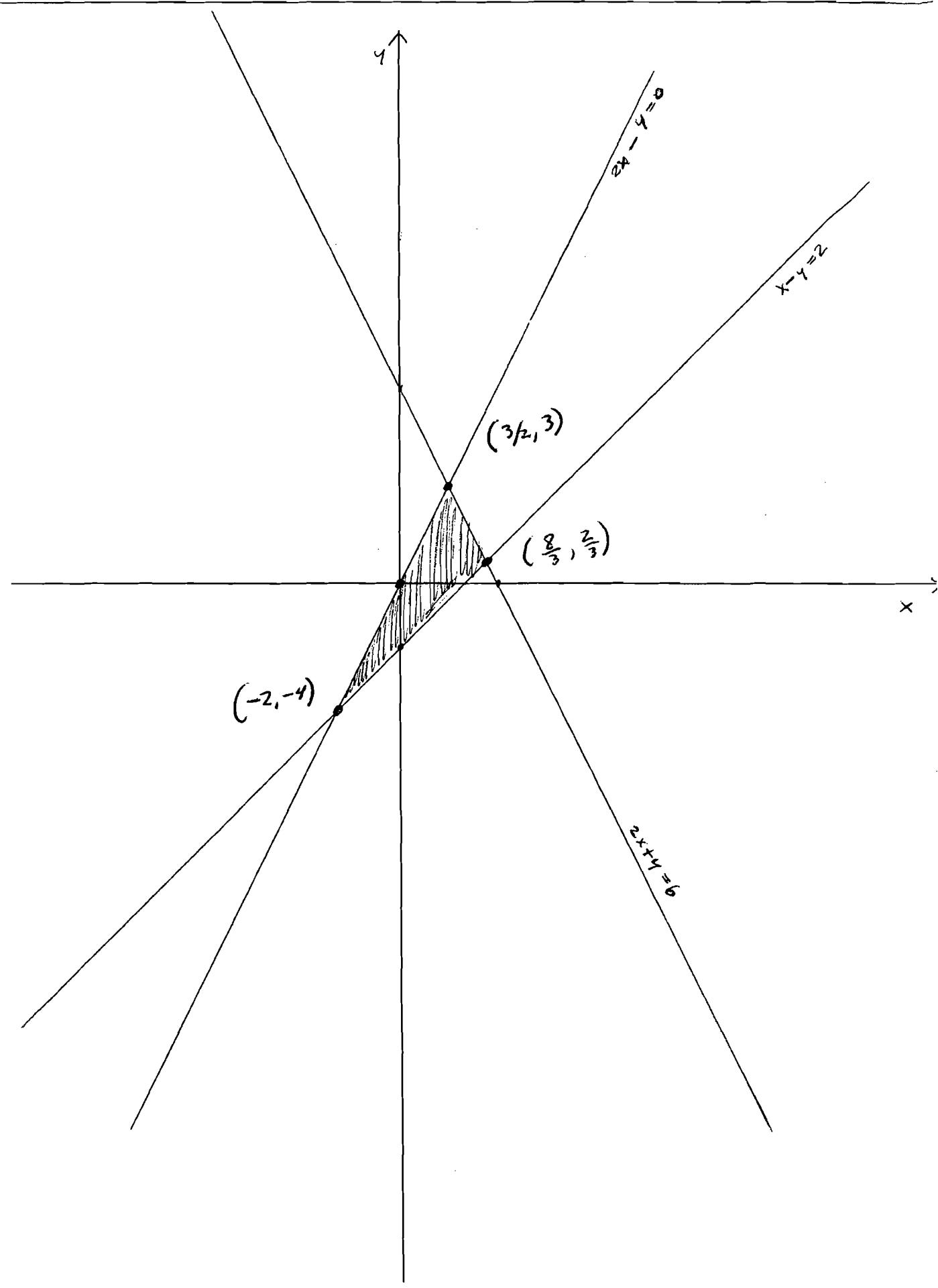




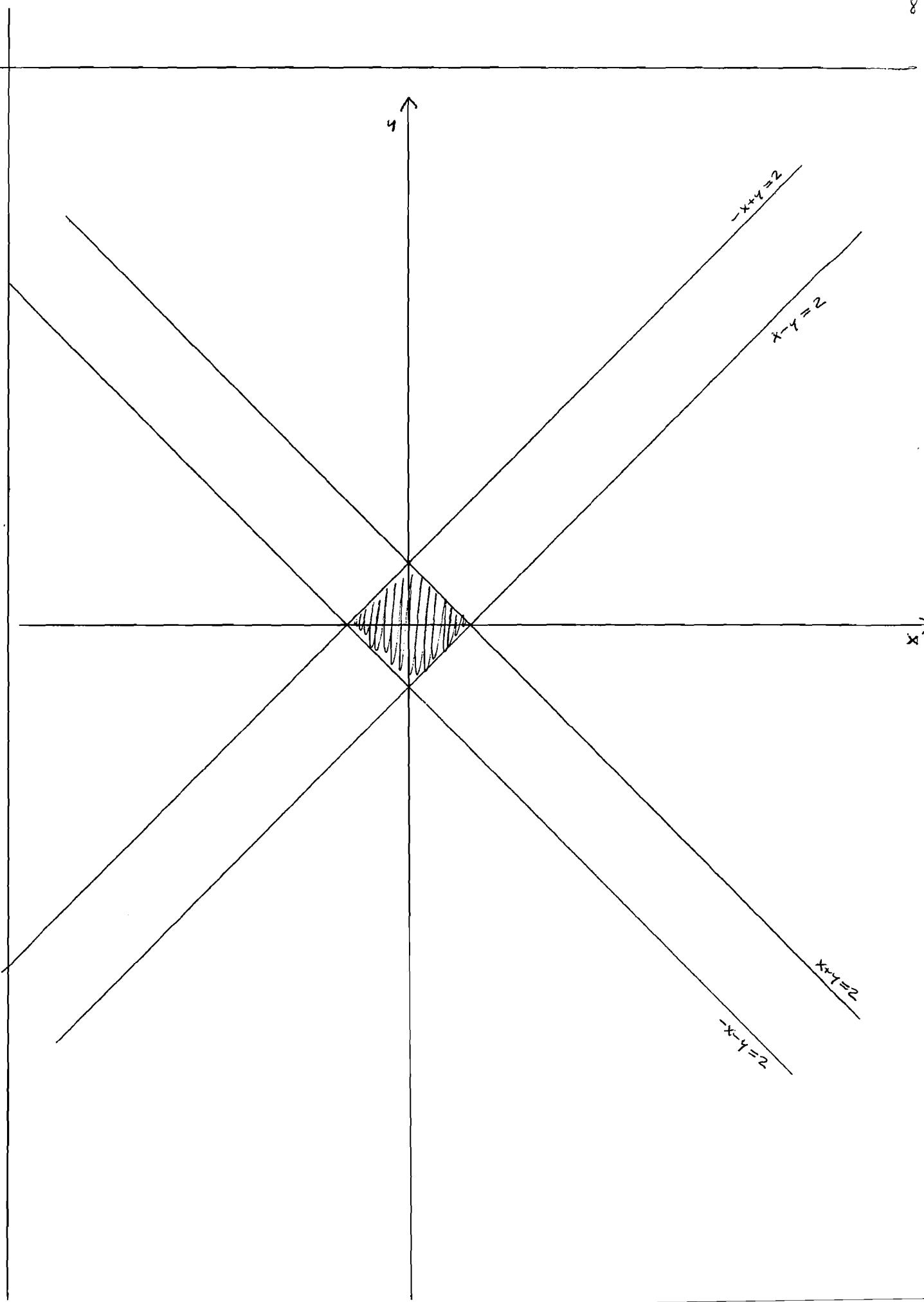
Problem

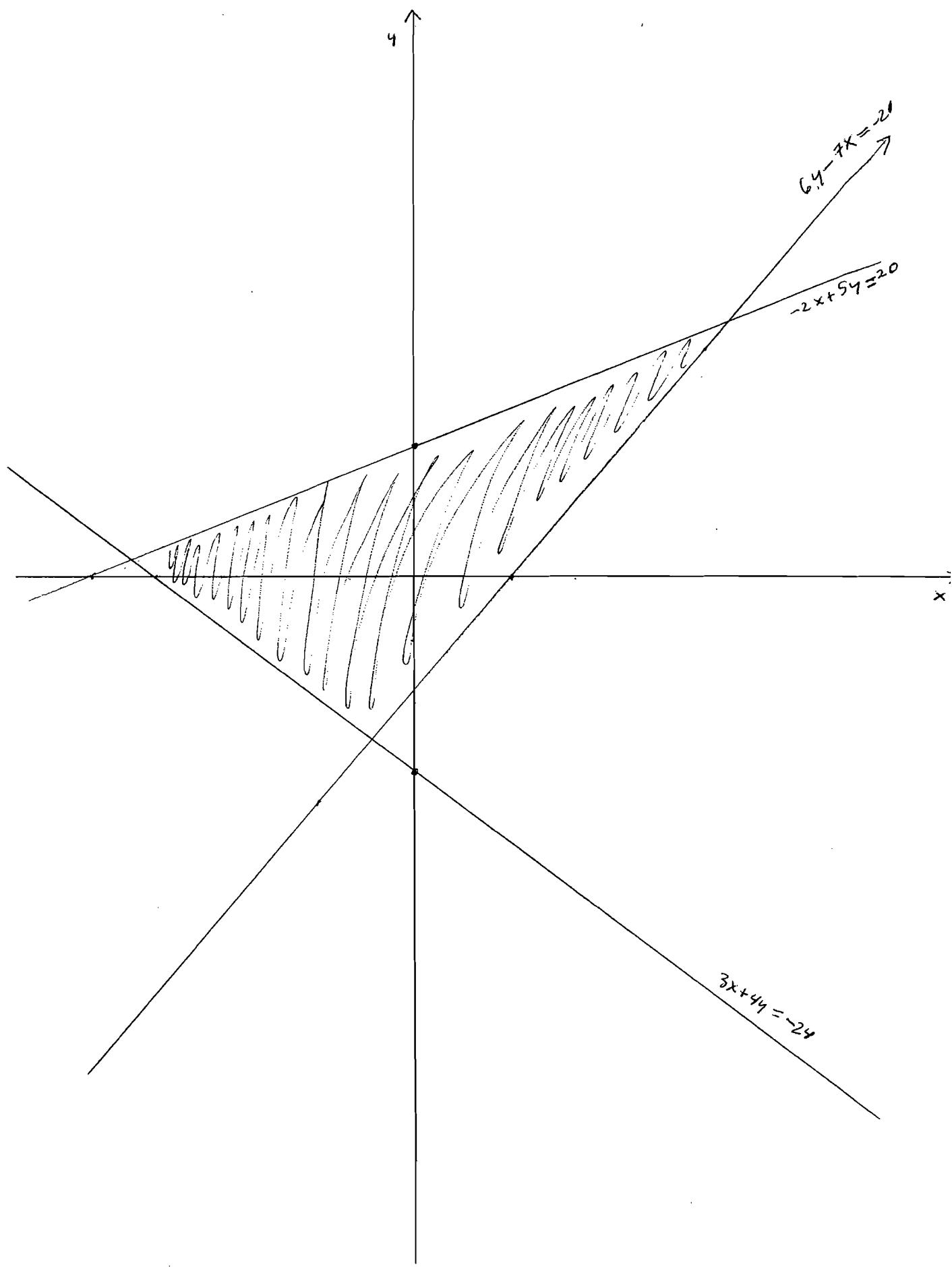


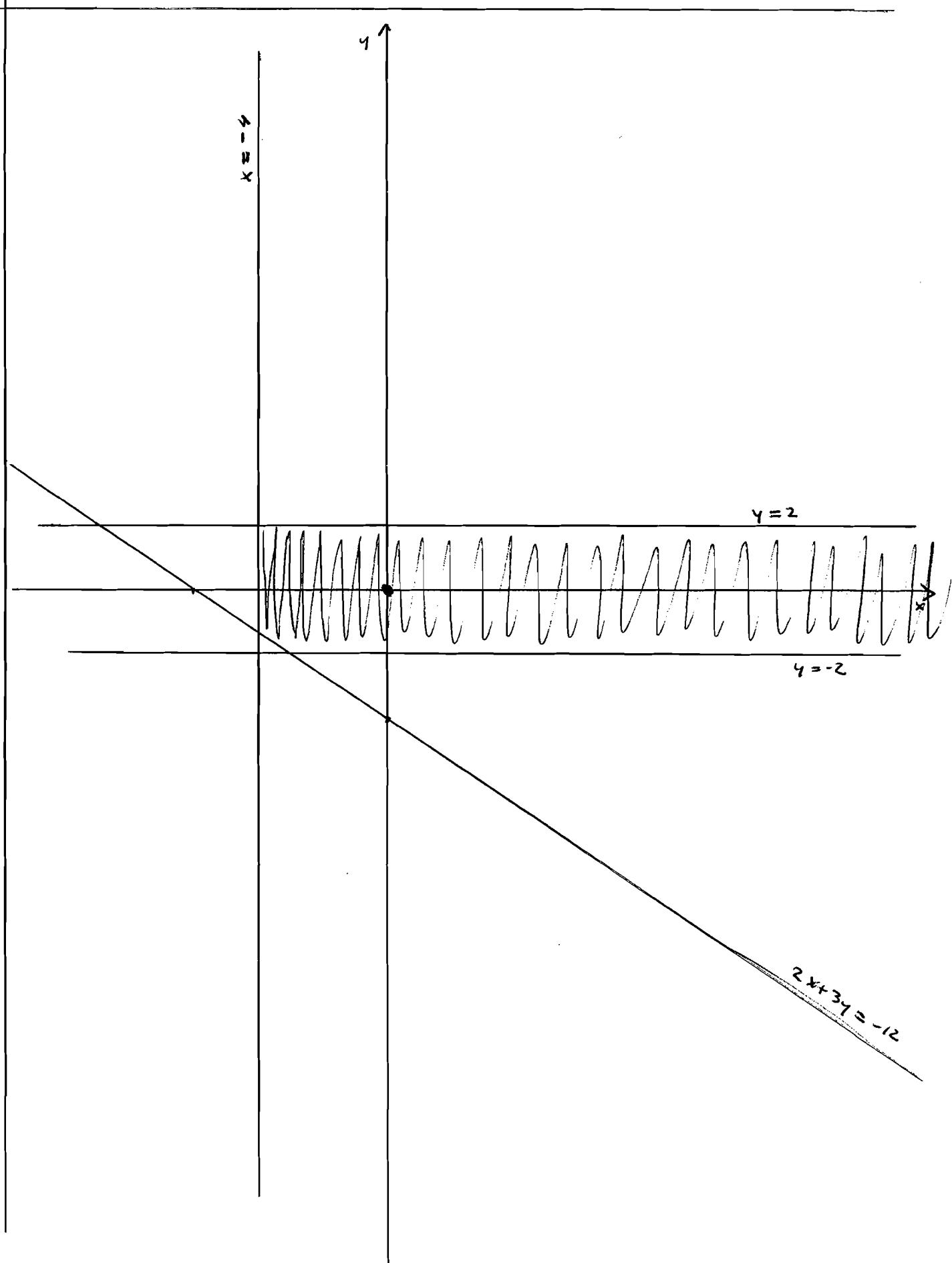
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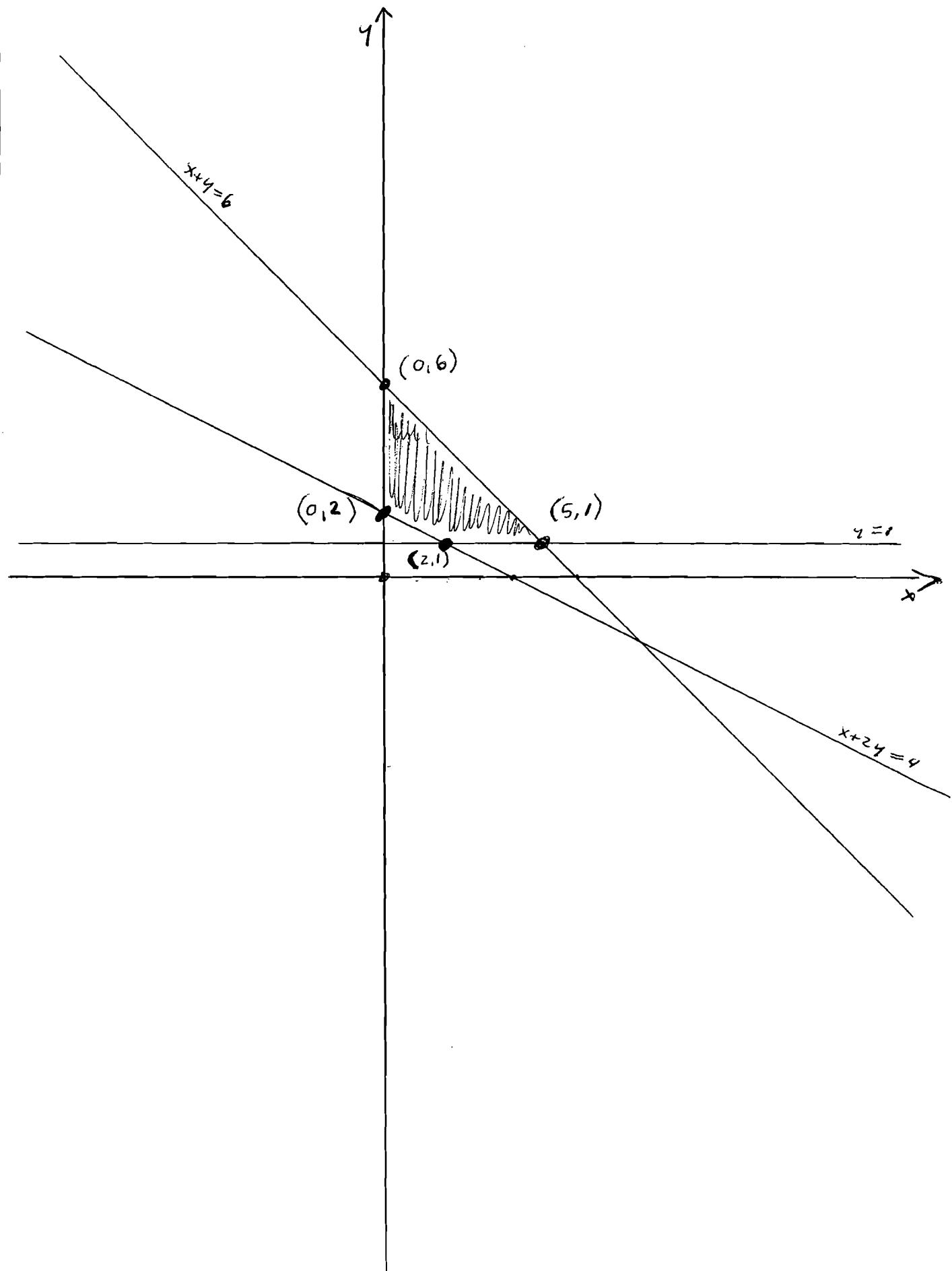


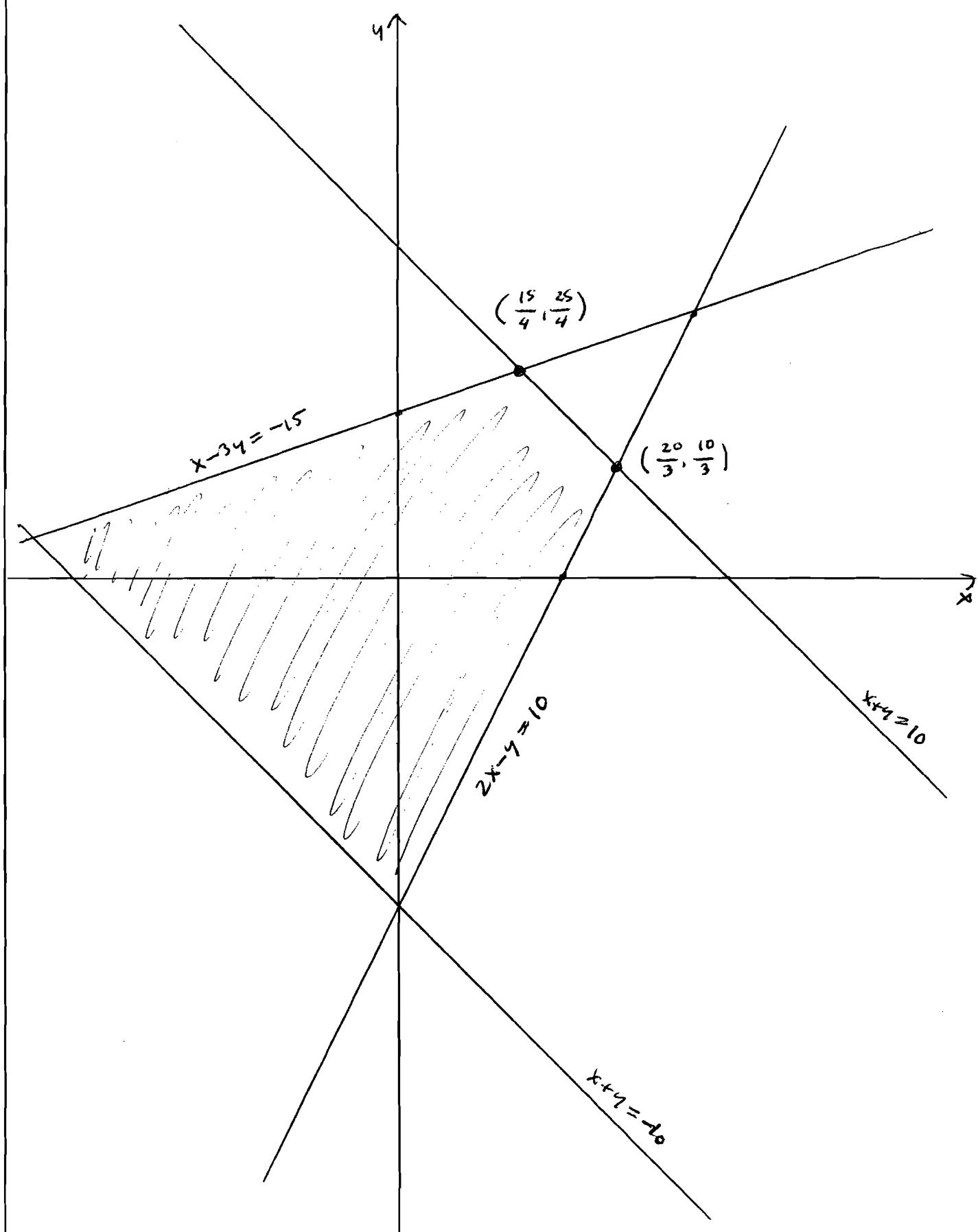
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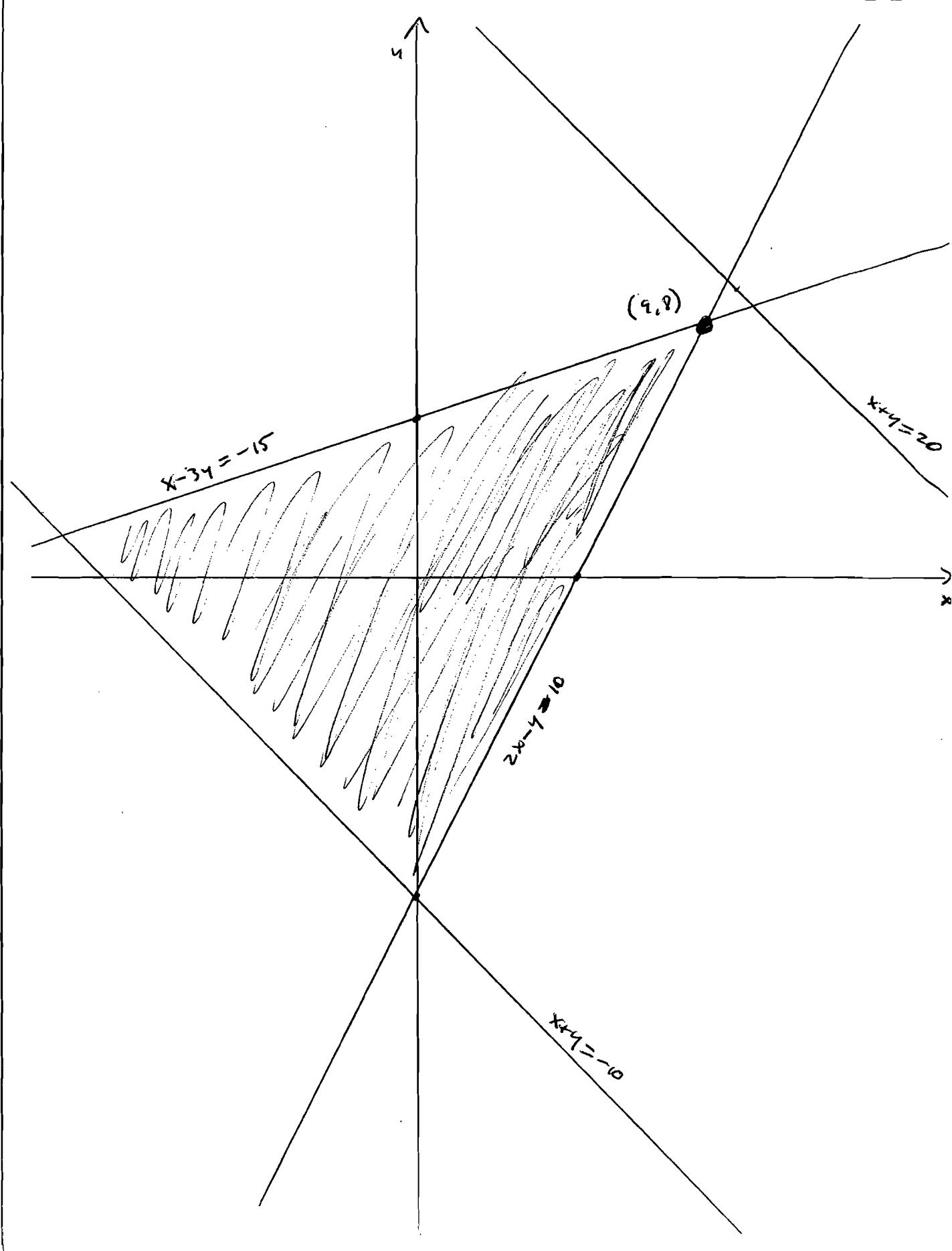


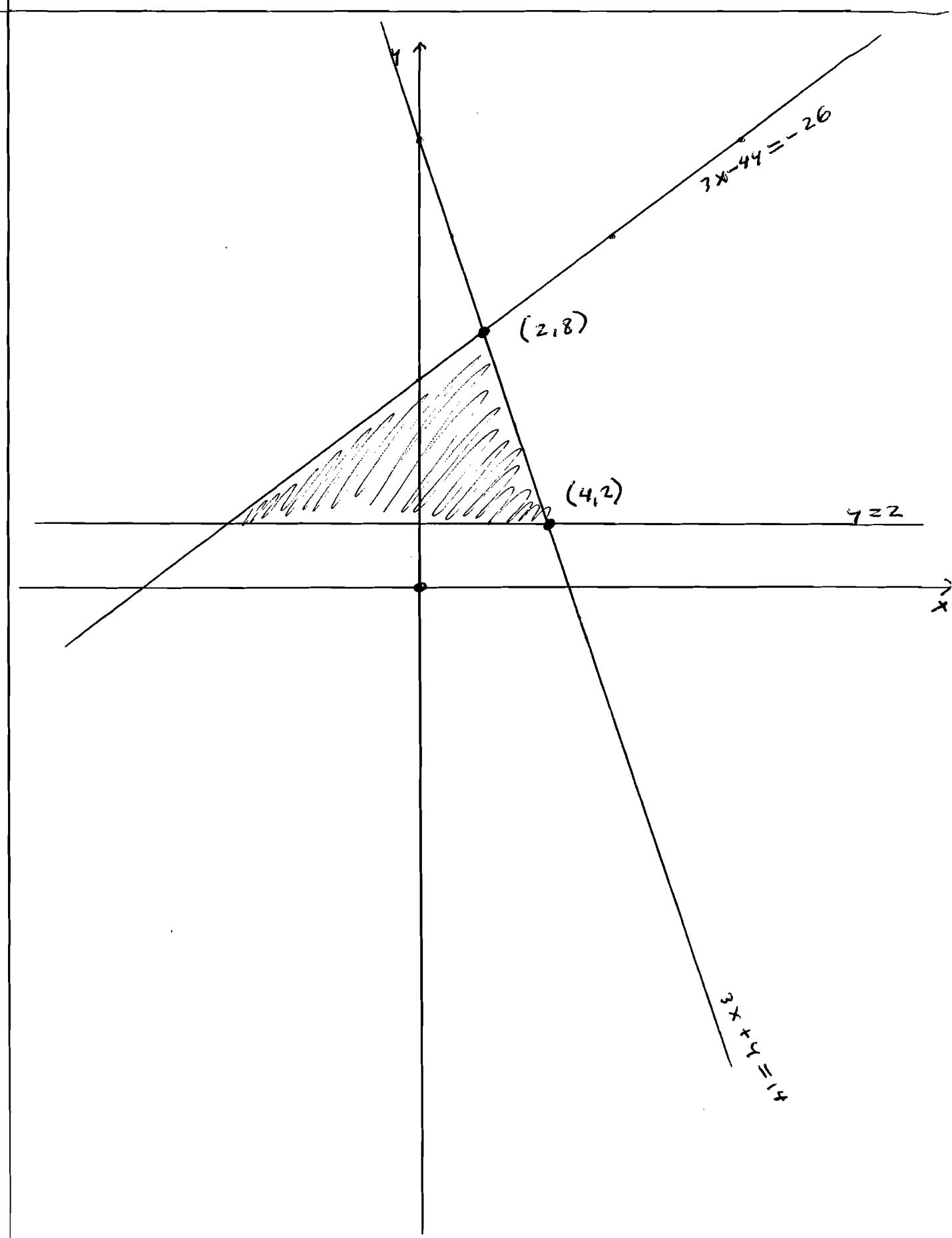




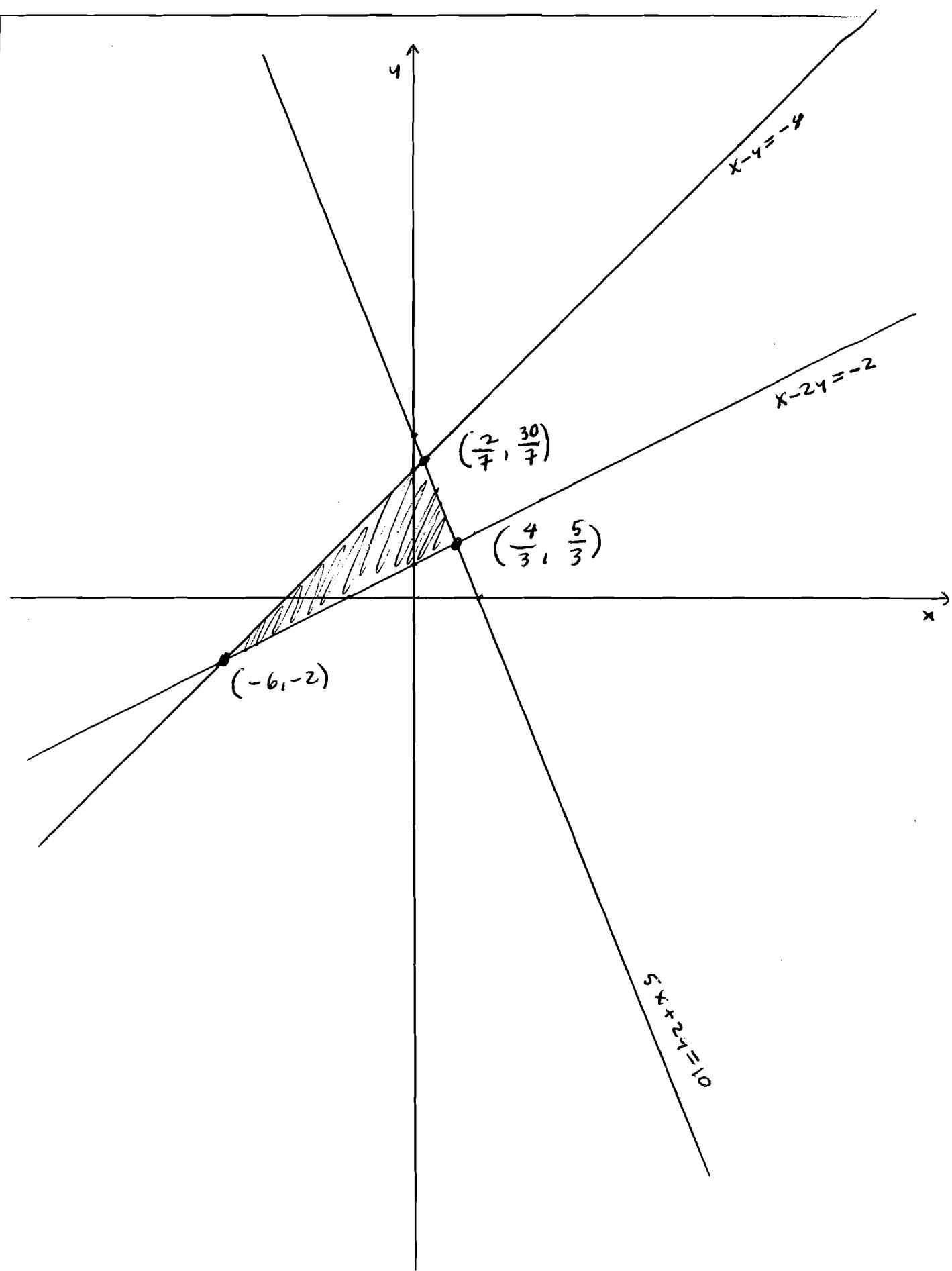




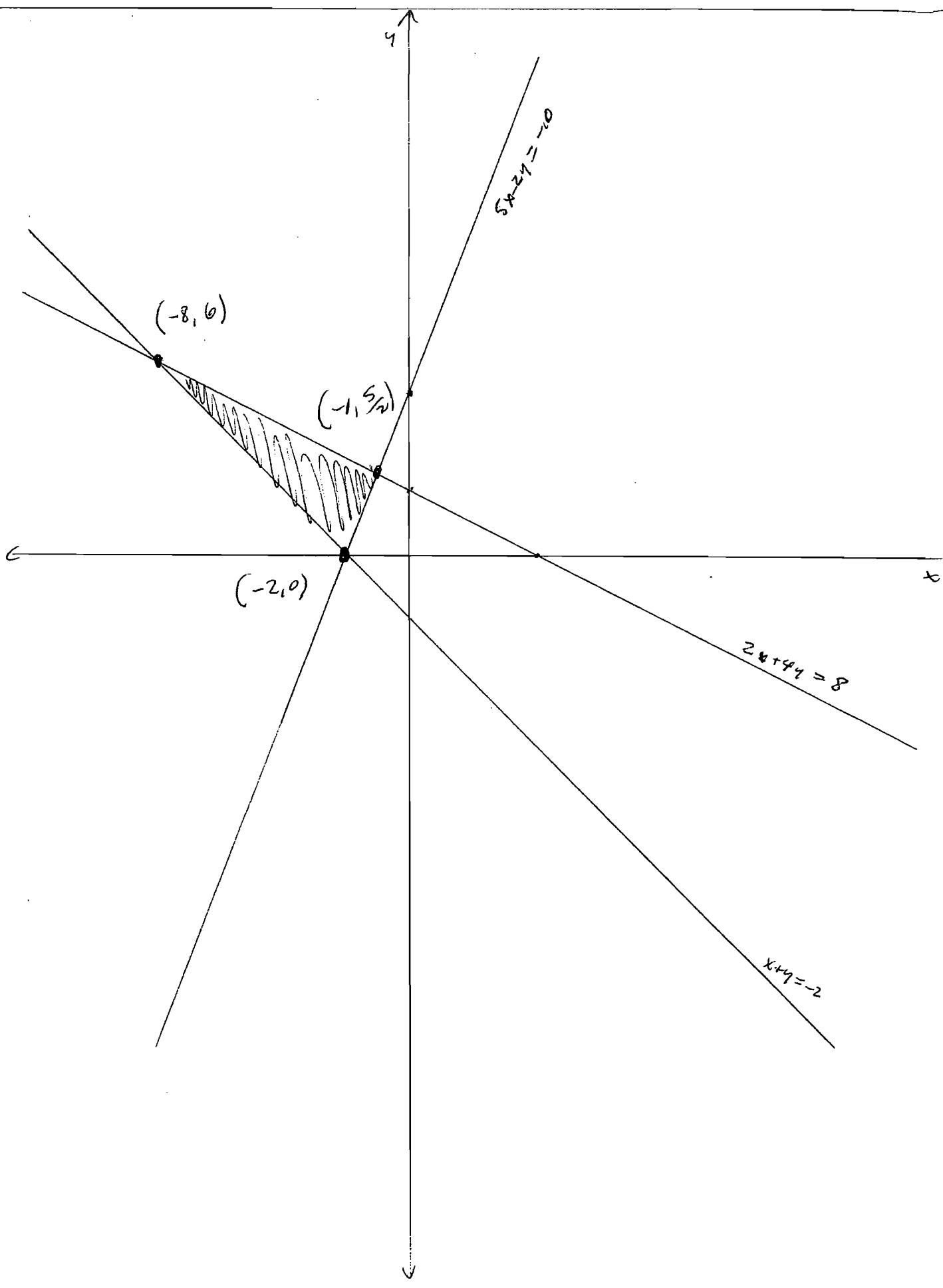




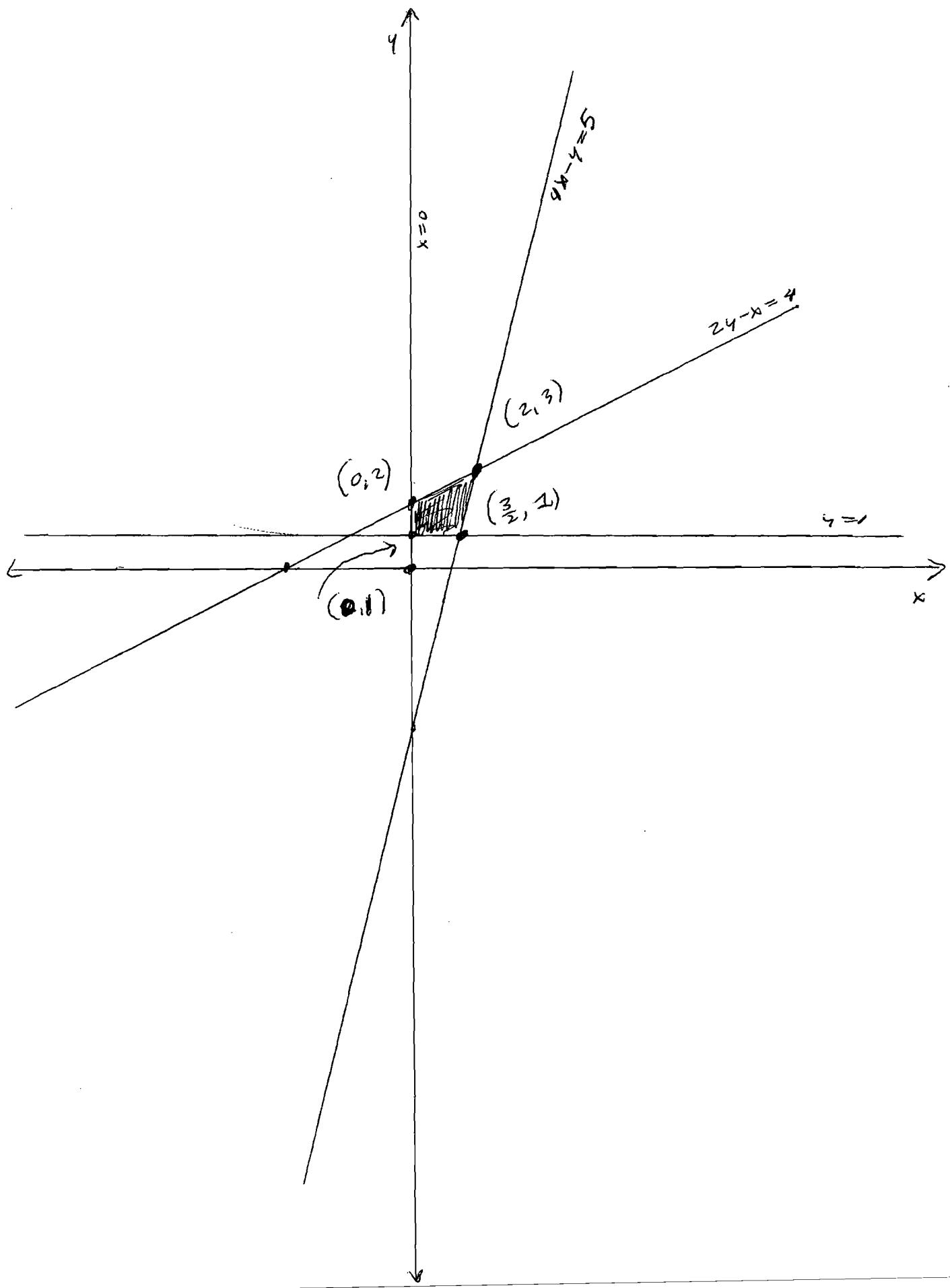
18

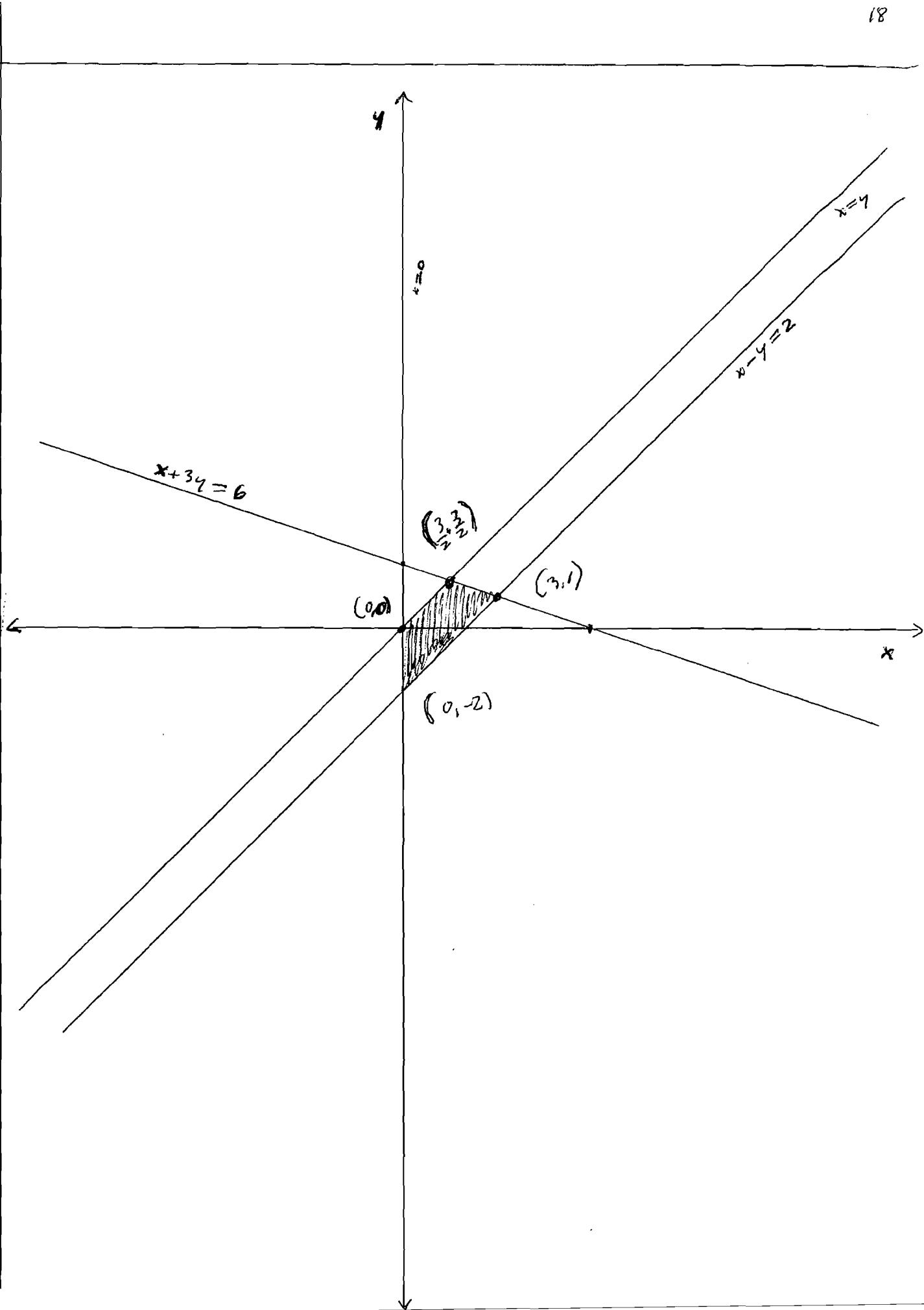


19



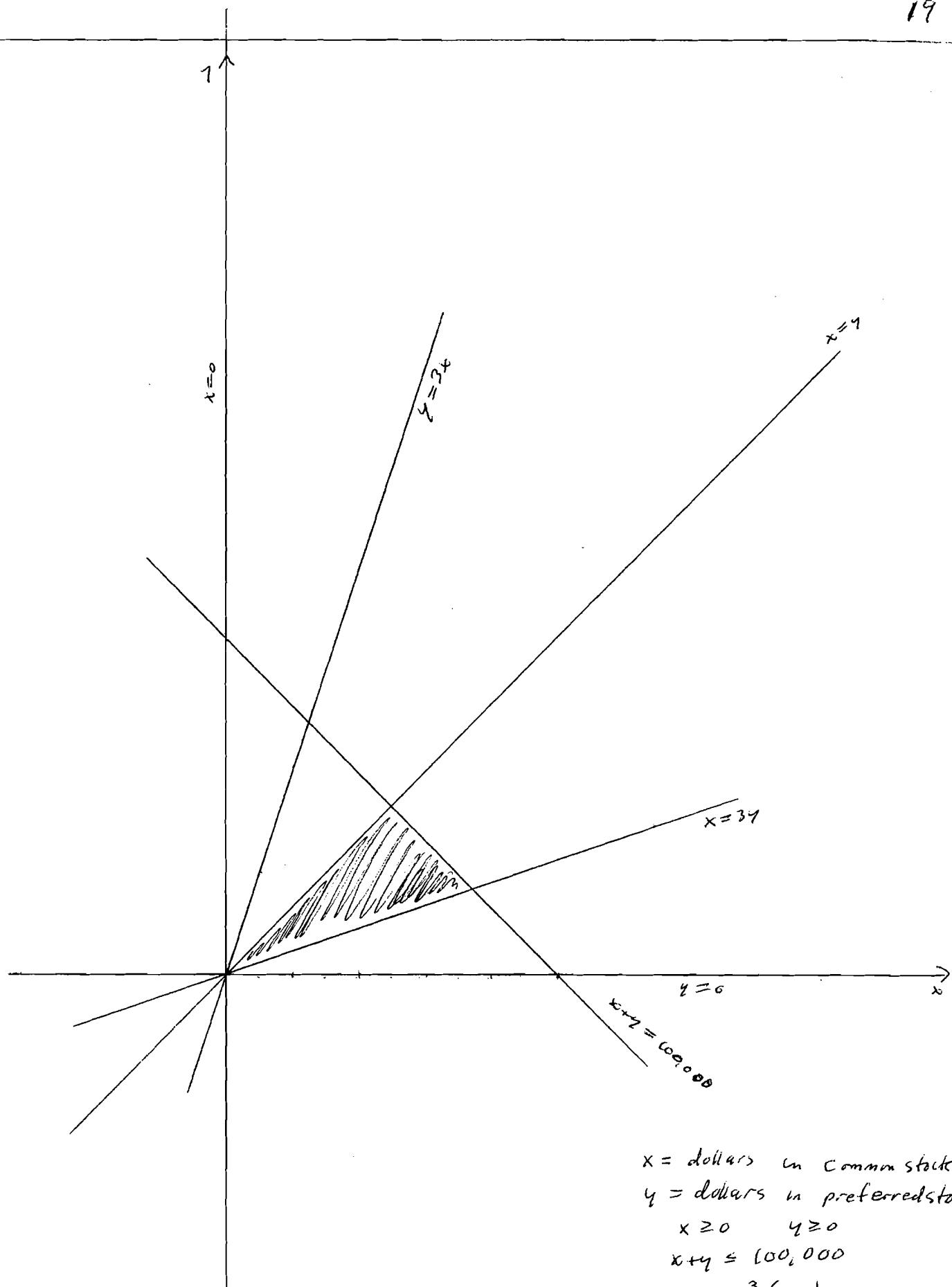
20





Problem

22



x = dollars in common stock
 y = dollars in preferred stock

$$x \geq 0 \quad y \geq 0$$

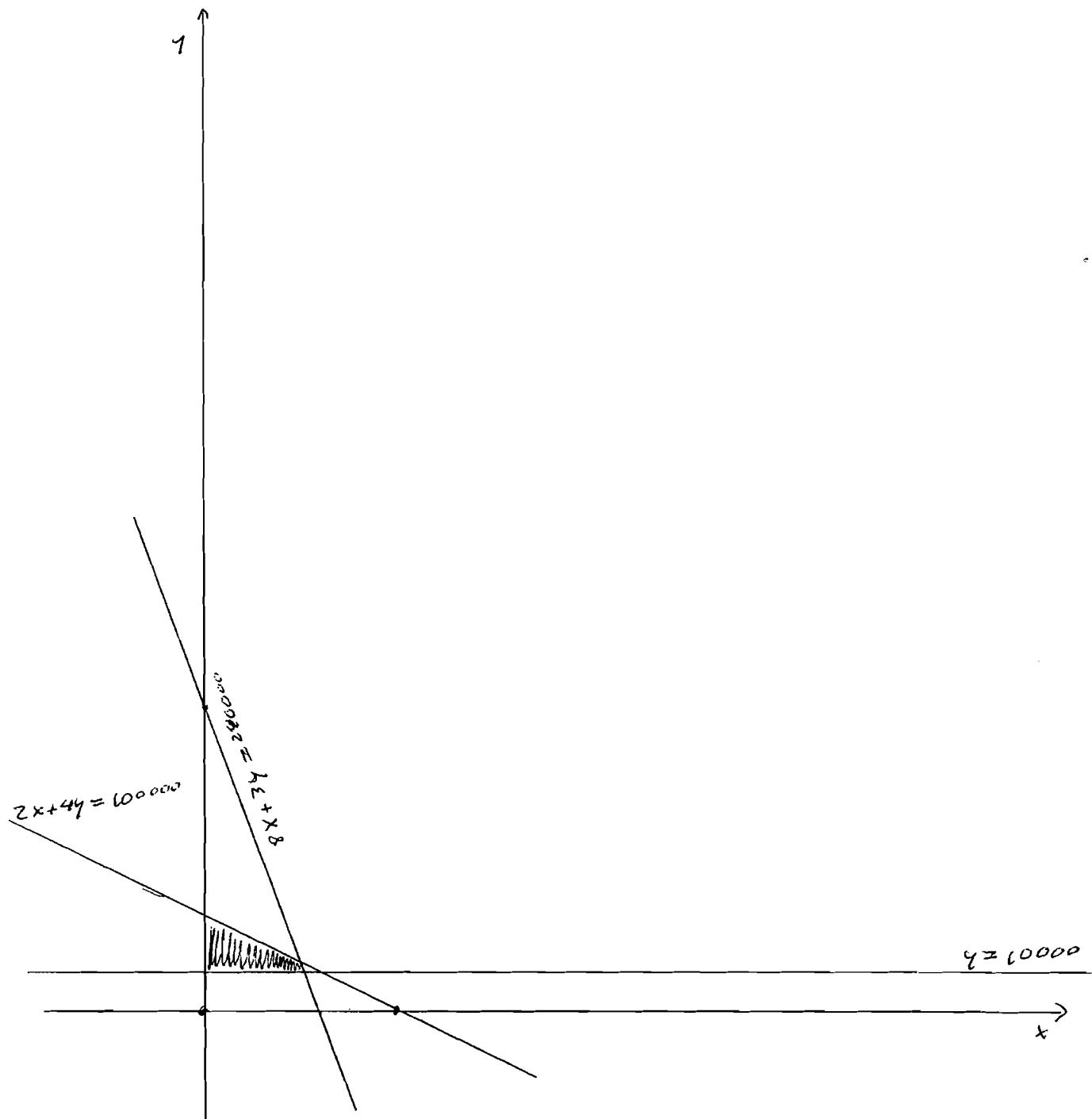
$$x+y \leq 100,000$$

$$x \leq \frac{3}{4}(x+y)$$

$$y \leq \frac{1}{4}(x+y)$$

$$x \geq y$$

23



	Lb Kraft	hrs Labor
st	2	$\frac{8}{100}$
HD	4	$\frac{3}{100}$
Supply	100,000	2400

$$x = \# \text{ Standard boxes}$$

$$y = \# \text{ Heavy duty boxes}$$

$$x \geq 0 \quad y \geq 0$$

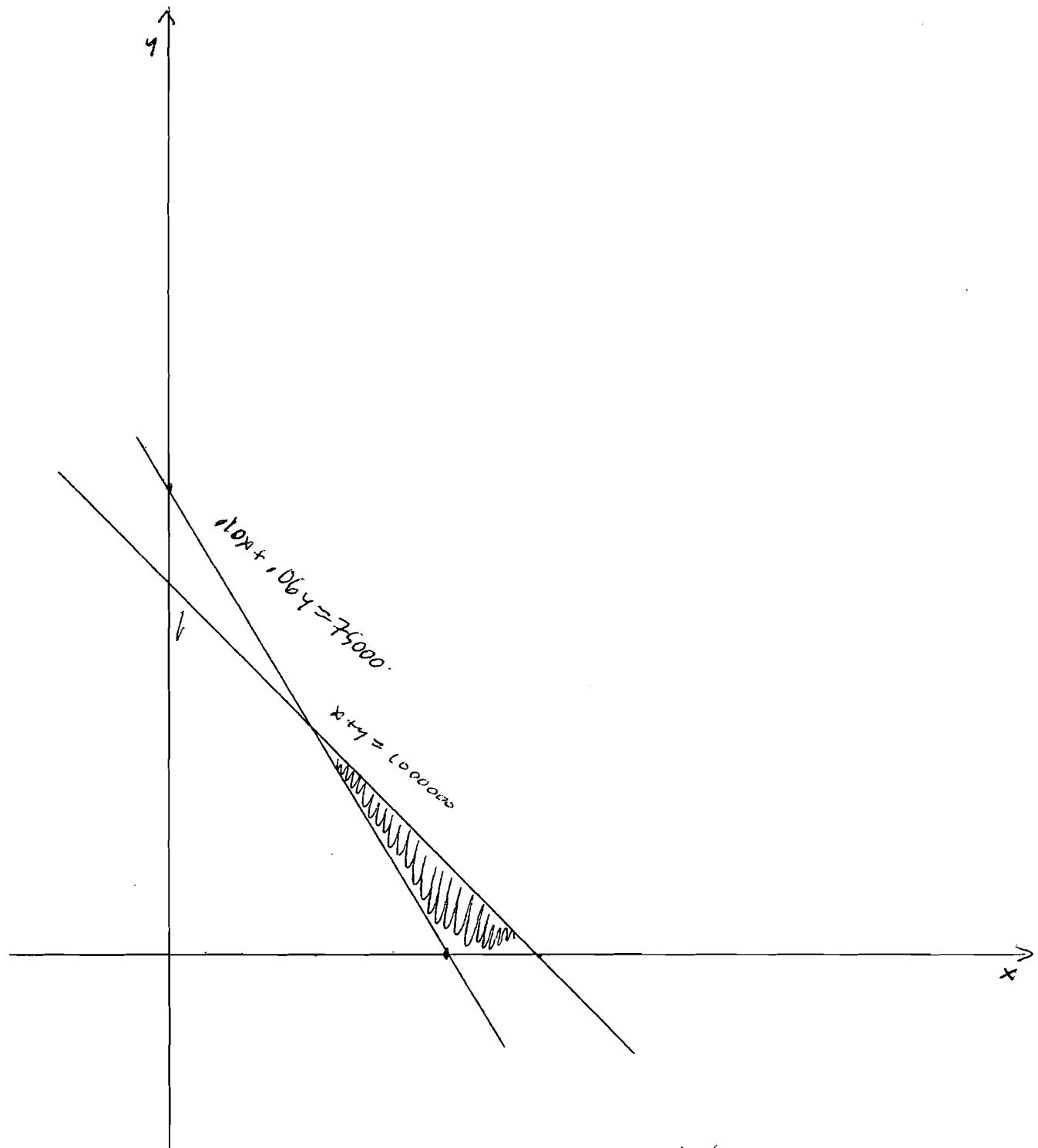
$$y \geq 10,000$$

$$2x + 4y \leq 100,000$$

$$8x + 3y \leq 240,000$$

Problem

24

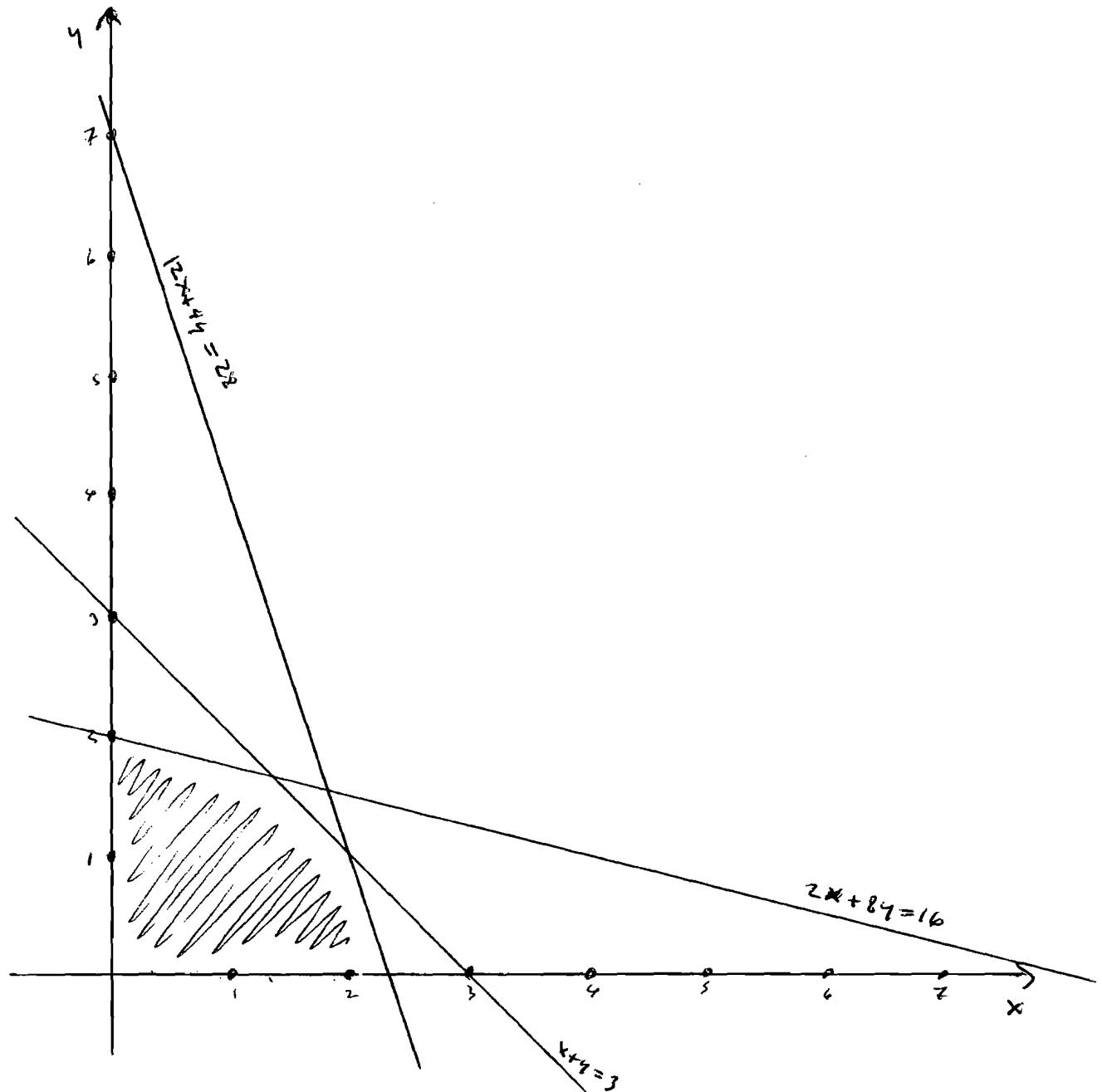
 x = dollar investment in junkbonds. y = dollar investment in securities

$$x \geq 0 \quad y \geq 0$$

$$x + y \leq 1000000$$

$$0.10x + 0.06y \geq 75000$$

25



$$x = \# \text{ acres for exp 1}$$

$$y = \# \text{ acres for exp 2}$$

$$x \geq 0 \quad y \geq 0$$

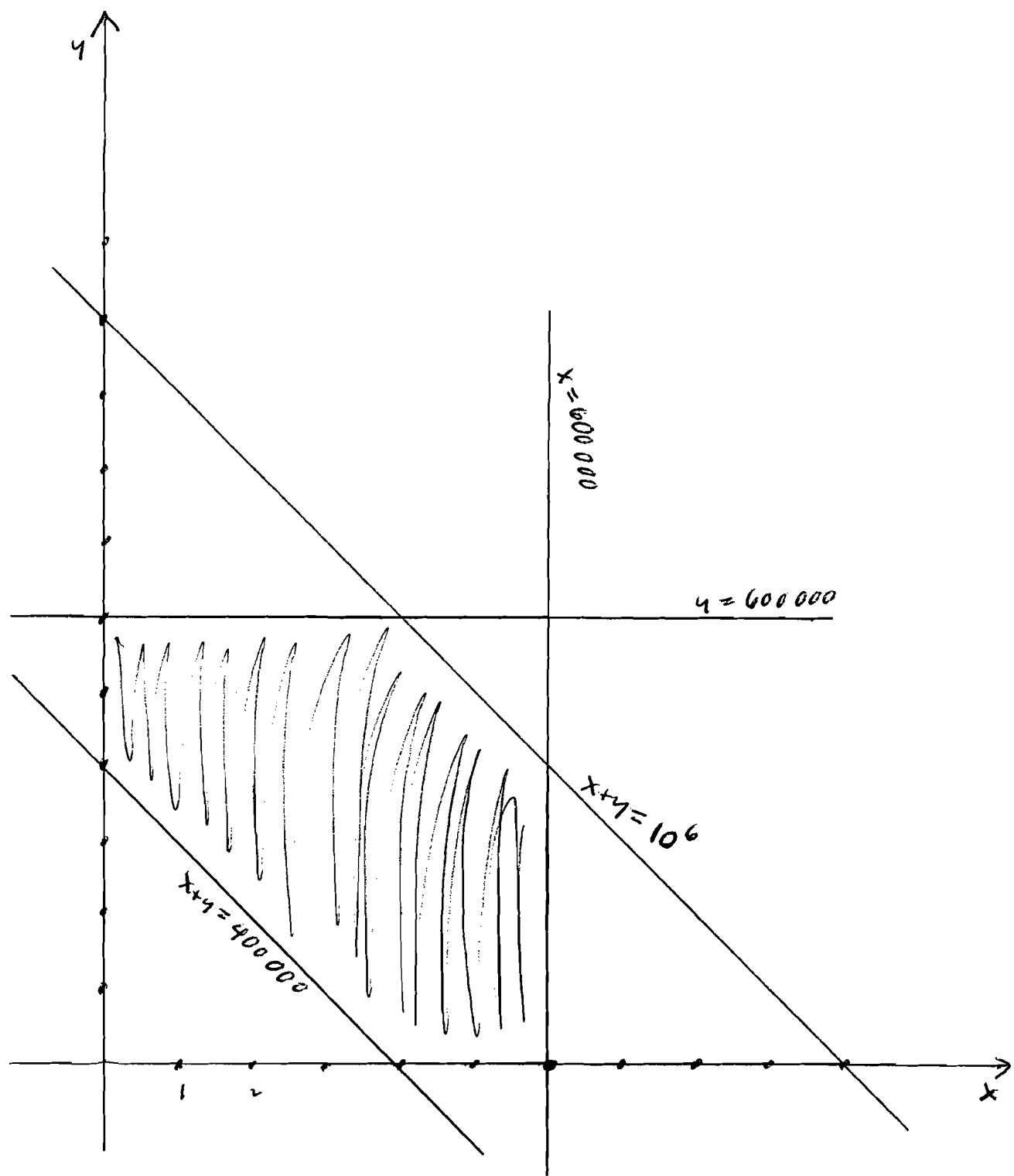
$$x + y \leq 3$$

$$2x + 8y \leq 16$$

$$12x + 4y \leq 28$$

	# days	# hours Lab work
1 acre exp 1	2	12
1 acre exp 2	8	4
Supply	16	28

26

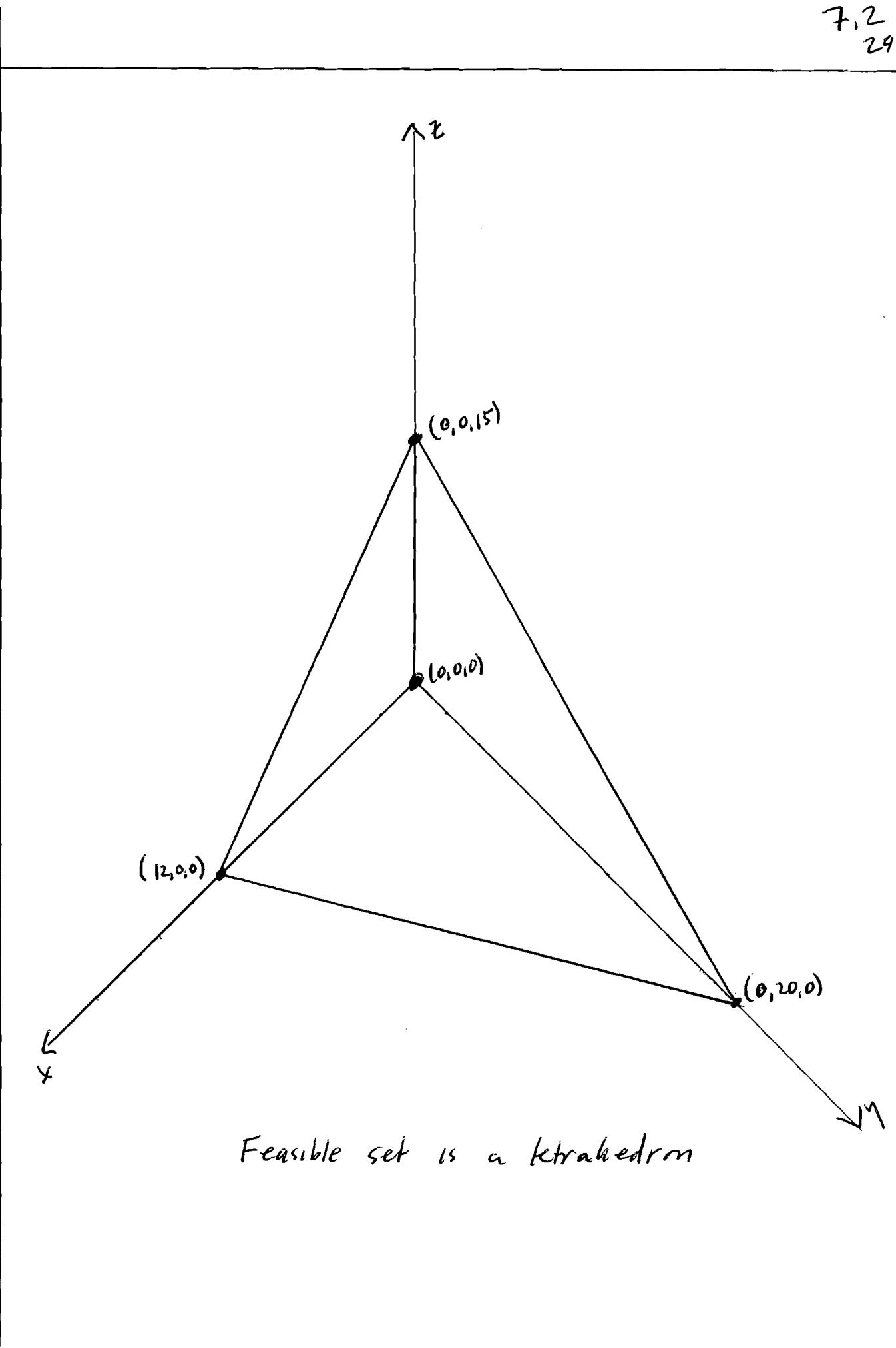


(b)

Objective function is

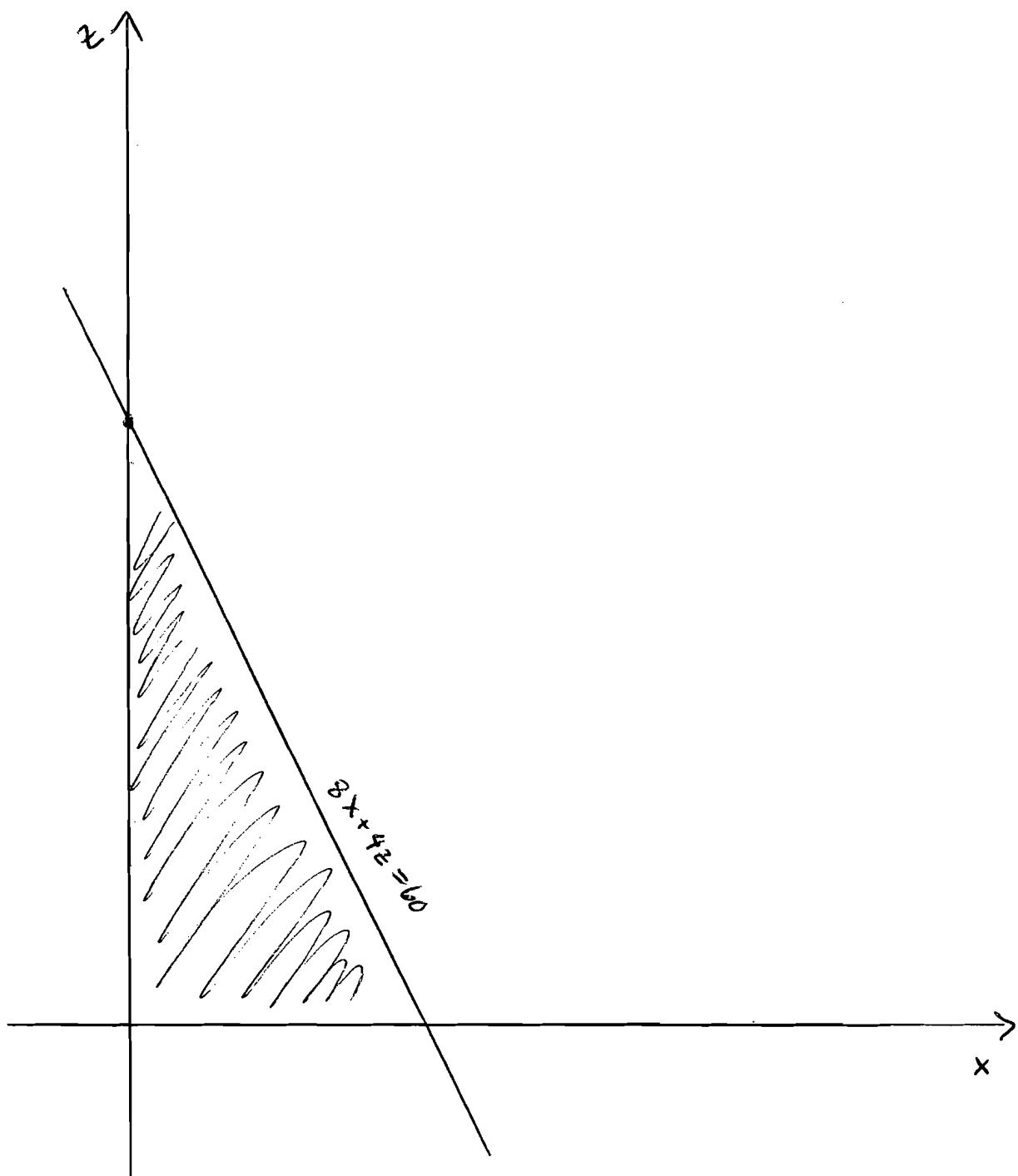
$$.06x + .11y + .09(10^6 - x - y)$$

$$= -.03x + .02y + (.09)10^6$$



7.2
25

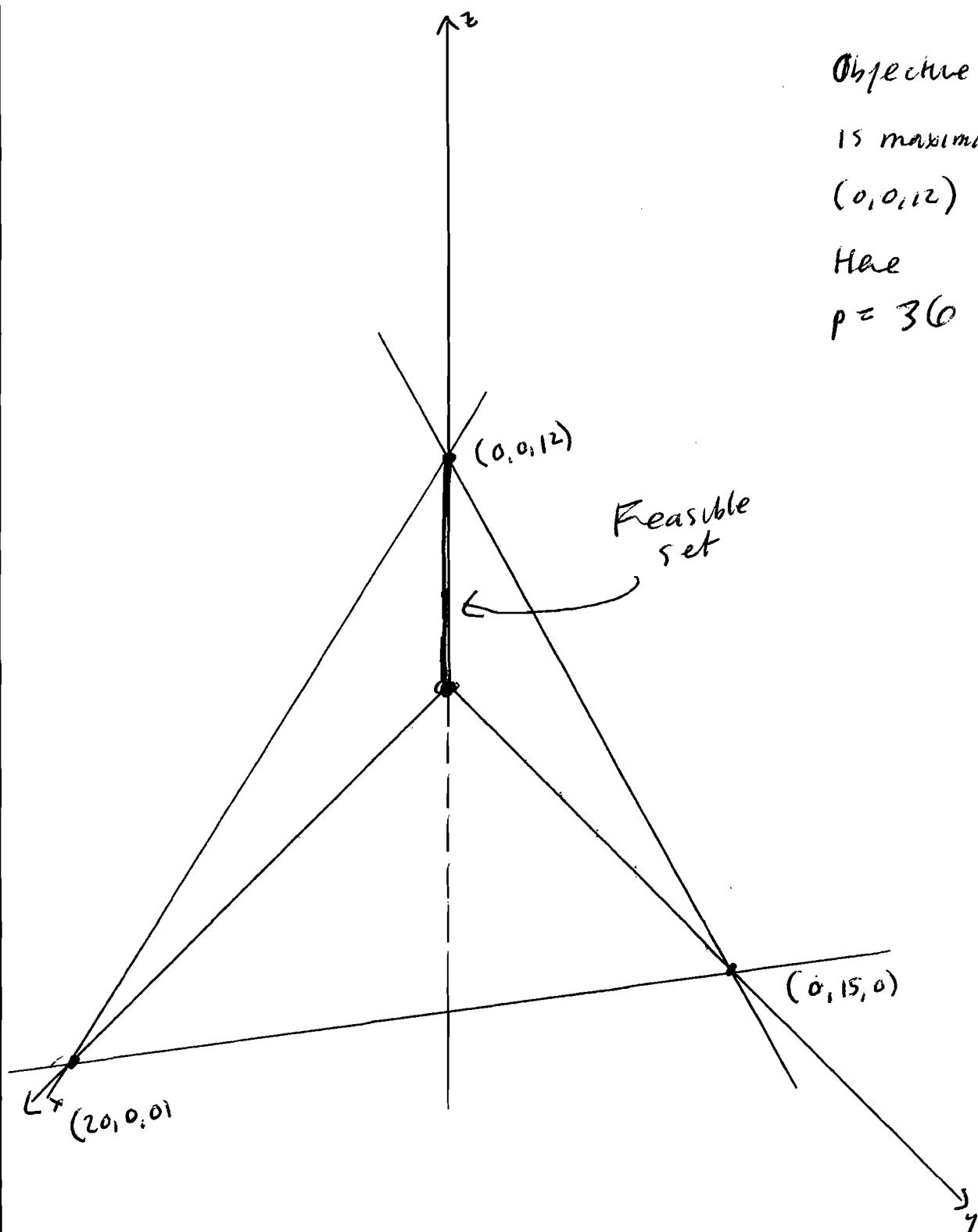
Problem



Here $x = y$
 $x \geq 0 \quad z \geq 0$
 $8x + 4z \leq 60$

29

30



Objective function
is maximized at

$(0,0,12)$

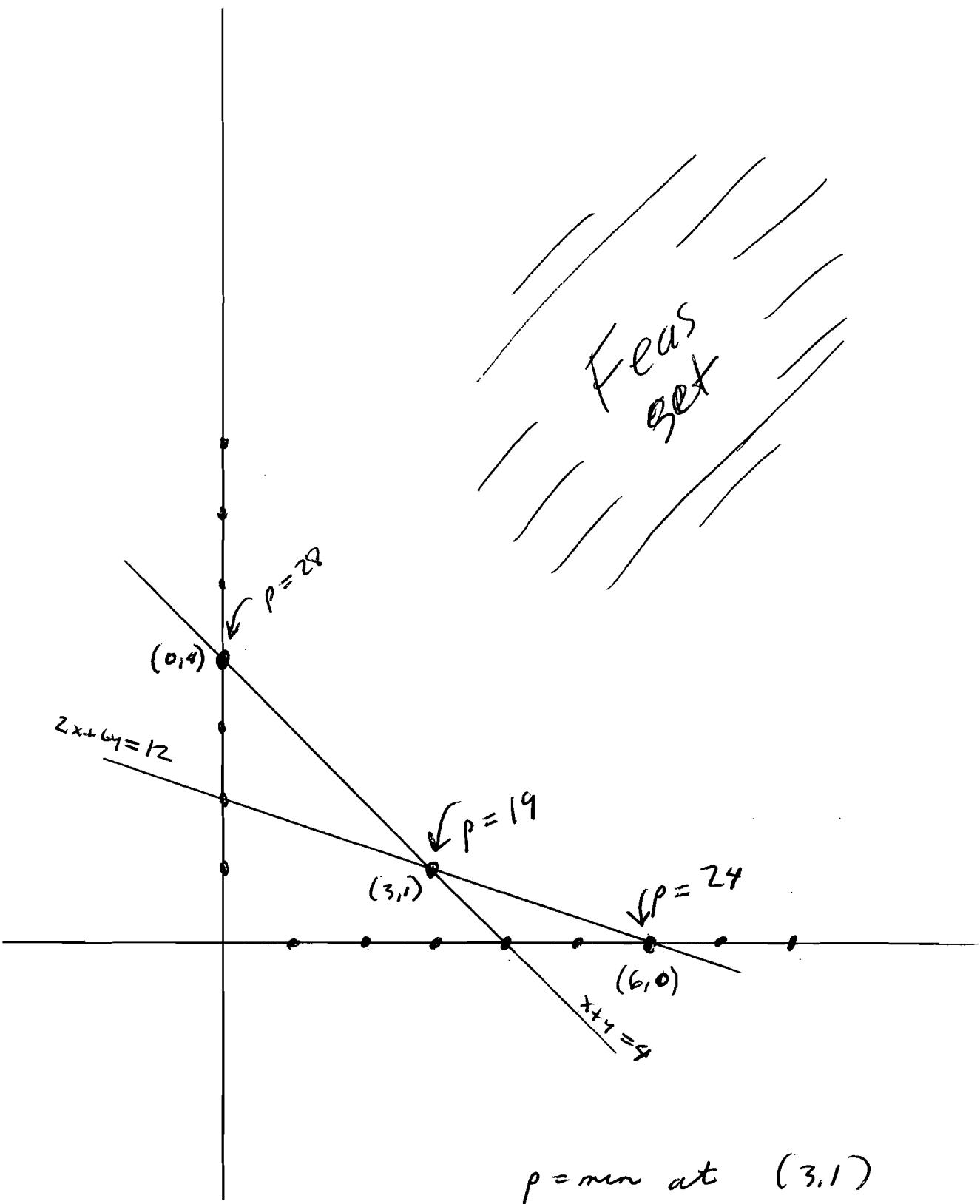
Here

$$p = 3(0)$$

Require $x=0$ $y=0$
since $x \geq 0, y \geq 0$ $2x+3y \leq 0$

Feasible set is Line segment from
 $(0,0,0)$ to $(0,0,12)$

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