D M A

Scribe

① ⓐ $2x + 3y \leq 25$

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

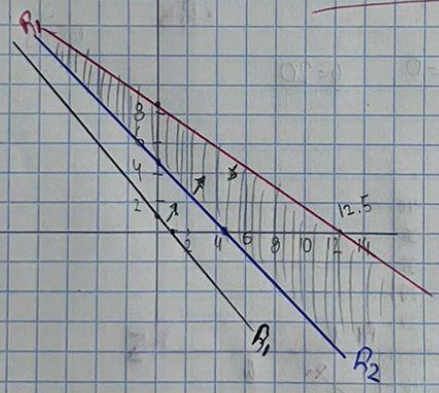
ⓑ $3x + 3y \geq 14$

$x = \frac{14}{3}$ $y = \frac{14}{13}$

ⓒ $x + y \geq 1$

$x = 1$ $y = 1$

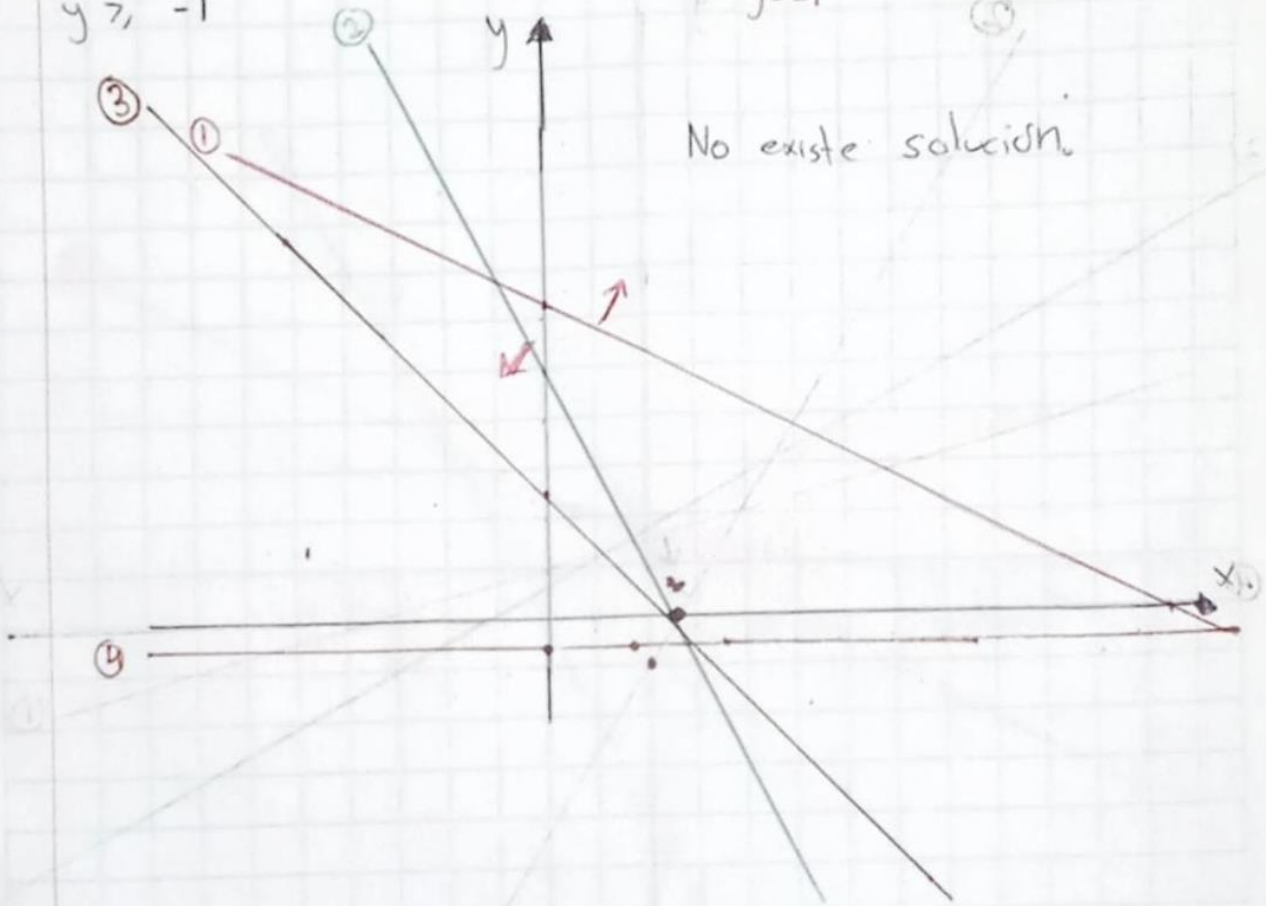
Si es convexa y tiene solución



2. $x - 2y \leq 25$
$2x + y \geq 10$
$x + y = 5$
$y \geq -1$

$x = 25$
$x = 5$
$x = 5$

$y = -\frac{25}{2} = 12.5$
$y = 10$
$y = 5$
$y = -1$

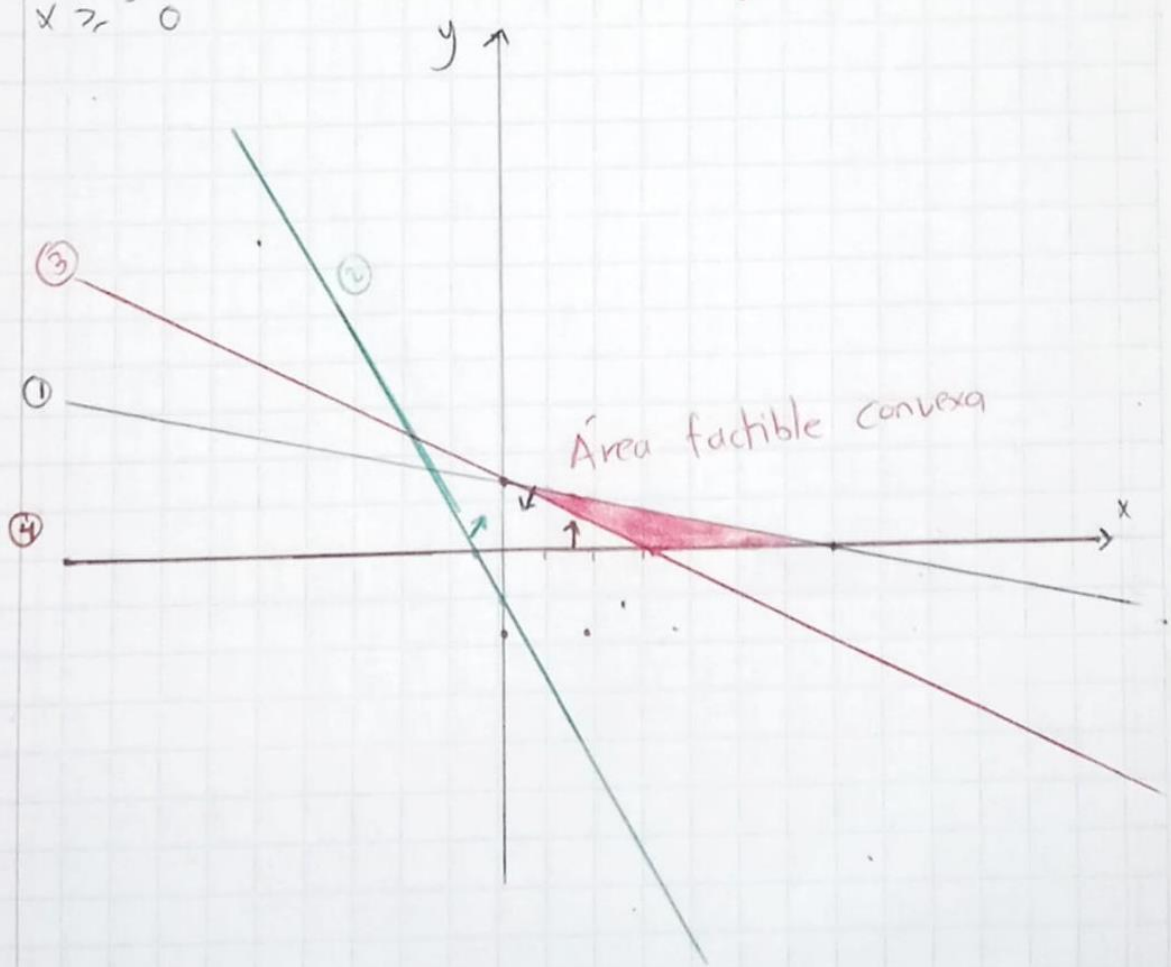


No existe solución.

3. $x + 5y \leq 35$
$2x + y \geq -5$
$4x + 9y \geq 65$
$x \geq 0$

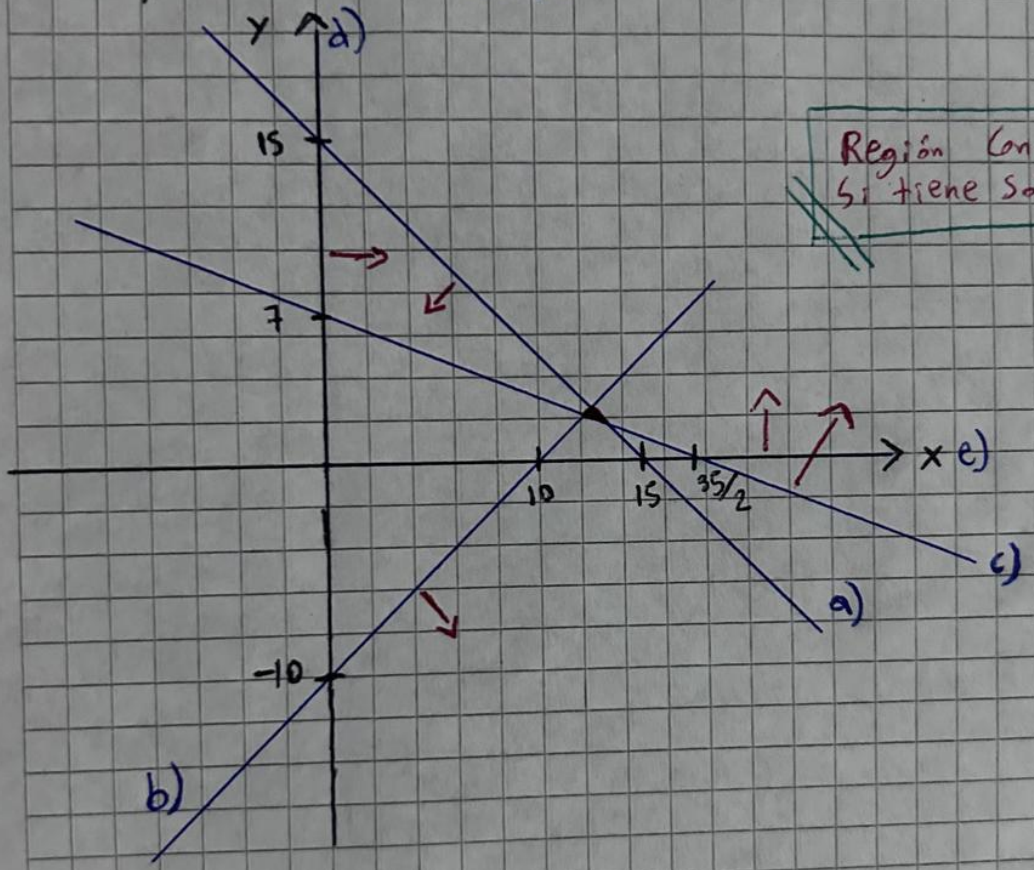
$x = 35$
$x = -5/2$
$x = 65/4$

$y = 7$
$y = -5$
$y = 65/9$



4. a) $x + y \leq 15$
b) $x - y \geq 10$
c) $2x + 5y \geq 35$
d) $x \geq 0$
e) $y \geq 0$

a) $x = 15$, $y = 15$
b) $x = 10$, $y = -10$
c) $x = 35/2$, $y = 7$
d) $x \geq 0$
e) $y \geq 0$



Región Convexa
Sí tiene Solución

⑤ ⓐ $-3x+4y \leq 40$ • R_1 $0 \leq 40$ $-R_1$

$x = -\frac{40}{3} = -13$ $y = 10$

ⓑ $-x-y \geq 30$ • R_2 $0 \geq 30$ $-R_2$

$x = -30$ $y = -30$

ⓒ $8x+7y \leq 56$ • R_3 $0 \leq 56$ $-R_3$

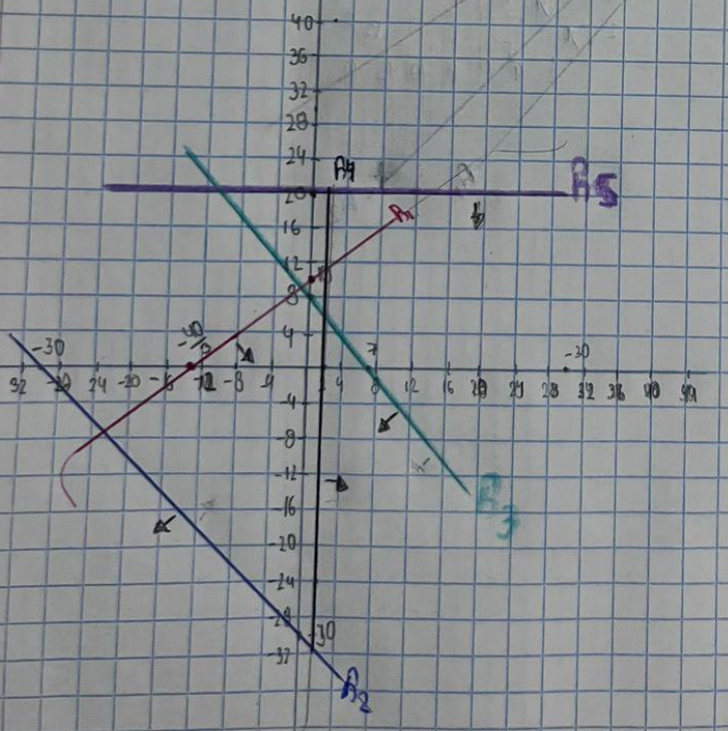
$x = \frac{56}{8} = 7$ $y = \frac{56}{7} = 8$

ⓓ $x \geq 2$ • R_4 $0 \geq 2$ $-R_4$

$x = 2$ $y = 0$

ⓔ $y \leq 20$ • R_5 $0 \leq 20$ $-R_5$

$x = 0$ $y = 20$



No tiene solución //