Serie I:

a) $h+2x=4$ $\quad 2x+4h=9$

① $h+2x=4-2x$

$h=4-2x$

② $4(-2x+4)+2x=9$

$-8x+16+2x=9$

$-8x+16+2x=9-16$

$-8x+2x=-7$

$-6x=-7$

$x=\frac{7}{6}$

③ $h=4-2x$

$h=-2x+4$

$h=-2(7/6)+4$

$h=\frac{14}{6}+4$

$h=\frac{7}{3}+4$ $\quad h=\frac{5}{3}=x\ \frac{7}{6}$ Determinado

b)

$x+2y=4$ $\quad 3x+y=4$

① $x+2y=4-2y$

$x=4-2y$

② $3(-2y+4)+y=4$

$-6y+12+y=4$

$-6y+12+y=4-12$

$-6y+y=-8$

$-5y=-8$

$y=\frac{8}{5}$ determinado

③

$x=-2\left(\frac{8}{5}\right)+4$

$x=\frac{-16}{5}+4$

$x=\frac{4}{5}$

c) $-2x+3y=12$ $\quad x+4y=7$

② $-2(-4y+7)+3y=12$ ① $x+4y=7-4y$

$8y-2+3y=12$ $\quad x=7-4y$

$17y=12-2$

$11y=14$

③

$x=-4\left(\frac{14}{11}\right)+7$

$y=\frac{14}{11}$

$x=\frac{-56}{11}+7$ $\quad x=-\frac{45}{11}$

Determinado

Serie II

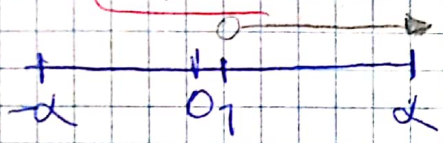
④ $3x+7<4$

$(-7)\ 3x+7<4-7$

$(-3)\ 3x<4-7$

$x<\frac{3}{3}$

$x>7$



⑤ $\frac{t}{2}-7 \leq \frac{2t}{3}+2$

$\frac{t}{2}-7 \leq \frac{2t}{3}+2$

$\frac{t}{2}6-7(6) \leq \frac{2+(6)}{3}+2(6)$

$3t-6 \leq 4t+12$

$3t \leq 18+4t$

$-t \geq 18$

$(-1)-t \geq 18$

$t \geq 18$

⑥ $2(k-7)-4>3k+5$

$2k-2-4>3k+5\ (-3k$

$-3k+2k-2-4>5$

$k-2-4>5$

$k>2+4+5$

$(-1)-k>11(-1)$

$k<11$

Serie III

④ $2(y+7)-3(y-2)<y+6$

$2y+k-3(y-2)<y+6$

$2y+2-3y+6<y+6$

$2y-3y<-2-6+6+y$

$-y+2y-3y<-2$

$-2y<-2$

$(-1)2y<-2(-1)$

$y>\frac{-2}{2}$

$y>1$

⑥ $\frac{3z+7}{7}-\frac{2-4z}{4} \geq \frac{-5z+1}{14}+\frac{7z}{6}$

$-6(3z+7)-14(2-4z)$

$-\geq 3(-5z-1)+7(7z)$

$18z+6-28+56z \geq 15z-12+49z$

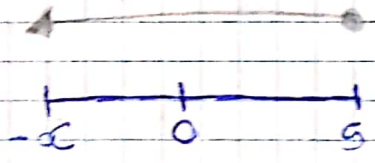
$18z+56z+15z-49z \geq -12-6+28$

$40z>18-28$

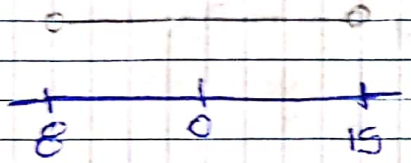
$(-1)40z>10(-1)$

$z \leq \frac{10}{40}$

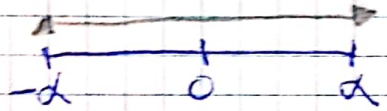
a) $(a, 5]$



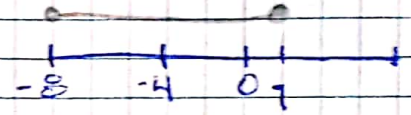
b) $(8, 15]$



c) $(-\alpha, \alpha]$



d) $[-8, 7]$



IV ⓐ $\frac{1}{16}x^3 - \frac{5}{8}x^2y + \frac{5}{3}xy^2 - y^3$

$-\frac{3}{2}y + \frac{1}{77}x$

$\frac{1}{16}x^3 + \frac{3}{8}x^3y$

$-\frac{1}{4}x^2y + \frac{5}{3}xy^2$

$-\frac{1}{4}x^2y - \frac{3}{2}xy^2$

$\frac{1}{6}xy^2 - y^3$

ⓑ $22xy - 15x^2 - 8y^2$

$3x + 2y$

$15y^2\ 22xy - 8y^2$

$3x + 2y$

$15x^2 + 22xy - 8y^2$

$15x^2 - 10xy$

$12xy - 8y^2$

$3x + 8y$