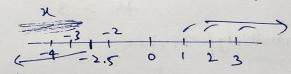


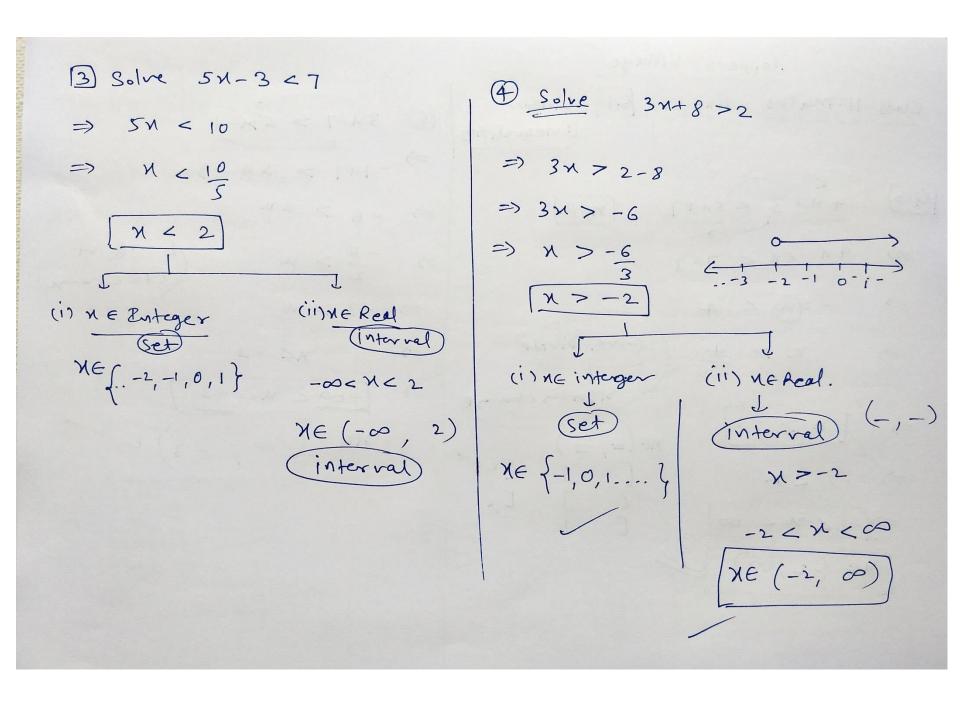
$$\Rightarrow \qquad \chi < \frac{100}{24}$$

$$\Rightarrow X < -\frac{5}{2}$$

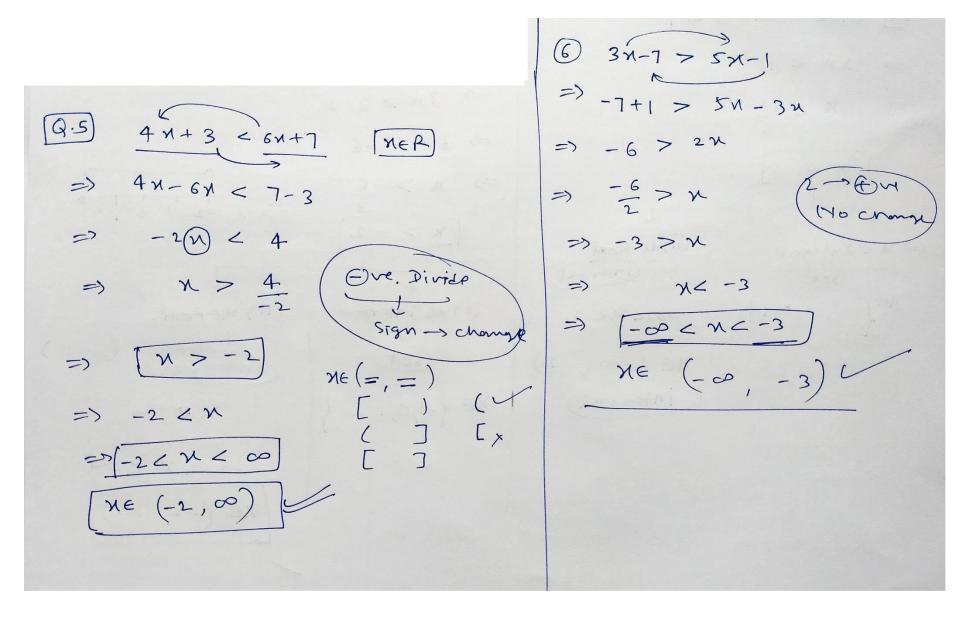
$$\Rightarrow X < -2.5$$



$$X \in \{...-5,-4,-3\}$$









$$\exists (n-1) \leq 2(n-3)$$

$$\Rightarrow 3 \times -3 \leq 2 \times -6$$

$$3n-2n \leq -6+3$$

$$= \frac{1}{1000} - \frac{1}{1000} = \frac$$

$$\Rightarrow -\infty < x \le 4$$

$$x \in (-\infty, 4)$$

9
$$\frac{1}{1} + \frac{1}{2} + \frac{1}{3} < 11$$

$$=$$
 $\frac{6x+3x+2x}{6} < 11$

=)
$$\chi < 66$$

$$\frac{10}{3} > \frac{\chi}{2} + 1$$

$$\frac{3}{3} - \frac{1}{2} > 1$$

$$\Rightarrow \frac{2 \pi - 3 \pi}{6} > 1$$

$$\Rightarrow \begin{bmatrix} -N > 1 \\ 6 \end{bmatrix} \Rightarrow \begin{bmatrix} \frac{N}{6} > 1 \end{bmatrix}$$

$$\Rightarrow \frac{1}{6} > 1$$

$$\frac{3(N-2)}{5} \leq \frac{5(2-N)}{3}$$

$$\Rightarrow$$
 $\chi \leq 2$

$$= \sqrt{-\infty} < x \leq 2$$

$$x \in (-\infty, 2]$$

$$=>4n+6-10<6n-12$$

$$7) \left[\begin{array}{c} 4 < x < 0 \\ x \in (4, \infty) \end{array} \right]$$

$$(14) 37 - (3x+5) = 9x - 8(x-3)$$

$$=) 37 - 3n - 5 = 9n - 8n + 24$$

$$-3x-x \ge -32+24$$

$$\Rightarrow \qquad x = \frac{-8}{4} \Rightarrow \boxed{x \leq 2}$$

$$\frac{15}{4} < \frac{(5N-2)}{3} - \frac{(7N-3)}{5}$$
 (NER)

=)
$$\frac{\pi}{4} = \frac{25\pi - 10 - 21\pi + 9}{15}$$
 Enterra

$$=$$
 $\chi > 4$





$$\frac{(2n-1)}{3} \ge \frac{(3n-2)}{4} - \frac{(2-n)}{5}$$

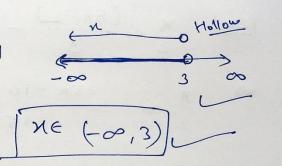
$$\Rightarrow \frac{2N-1}{3} = \frac{15N-10-8+4N}{20}$$

$$= \frac{2N-1}{3} = \frac{19N-18}{20}$$

$$\Rightarrow 40x-20 > 57x-54$$

$$(7)$$
 $3 \times -2 < 2 \times +1$

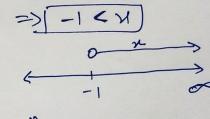
$$\Rightarrow 3n-2n < 2+1$$



$$=$$
 $2n > -2$

$$X \in [-1, \infty)$$

$$(9)$$
 $3(1-N) < 2(N+4)$



$$\frac{1}{20}$$
 $\frac{1}{2}$ $\frac{1$

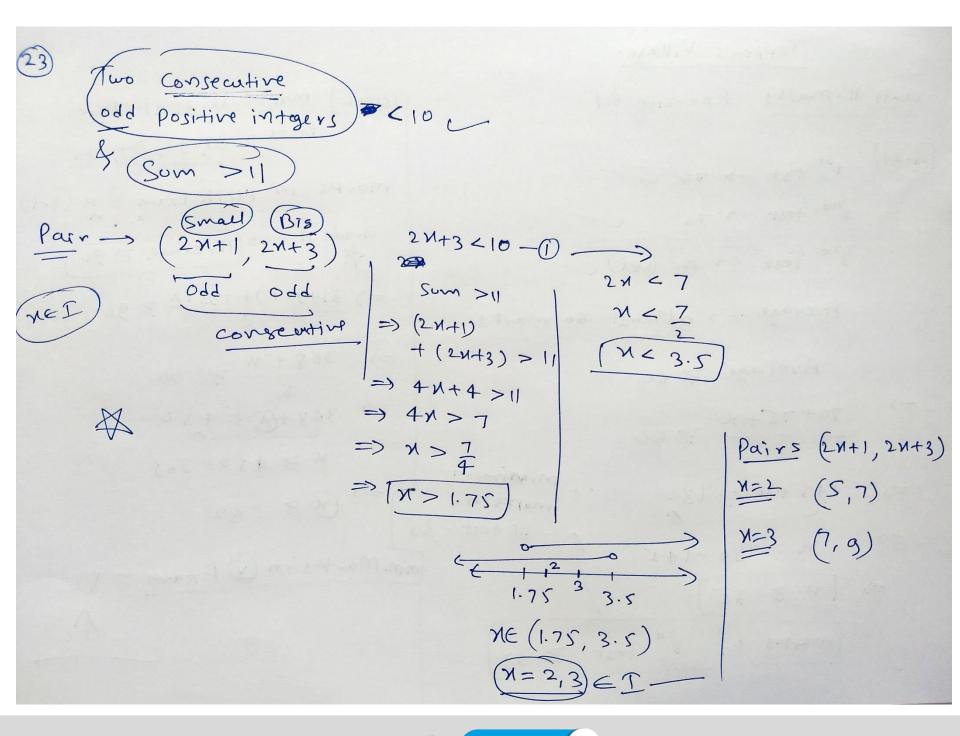
$$=$$
 $\frac{y}{2} < \frac{25x - 10 - 21x + 9}{15}$

$$=) 7x < -2$$

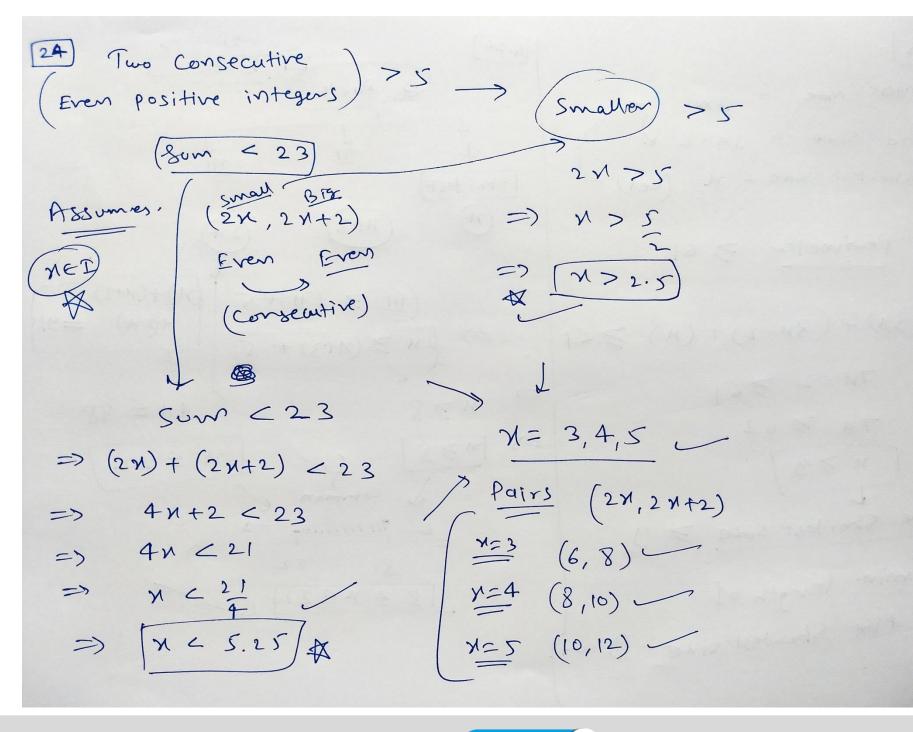
$$\Rightarrow$$
 $\left[\begin{array}{c} \chi < -\frac{2}{7} \end{array} \right]$

$$M \in \left(-\infty, -\frac{2}{7}\right)$$

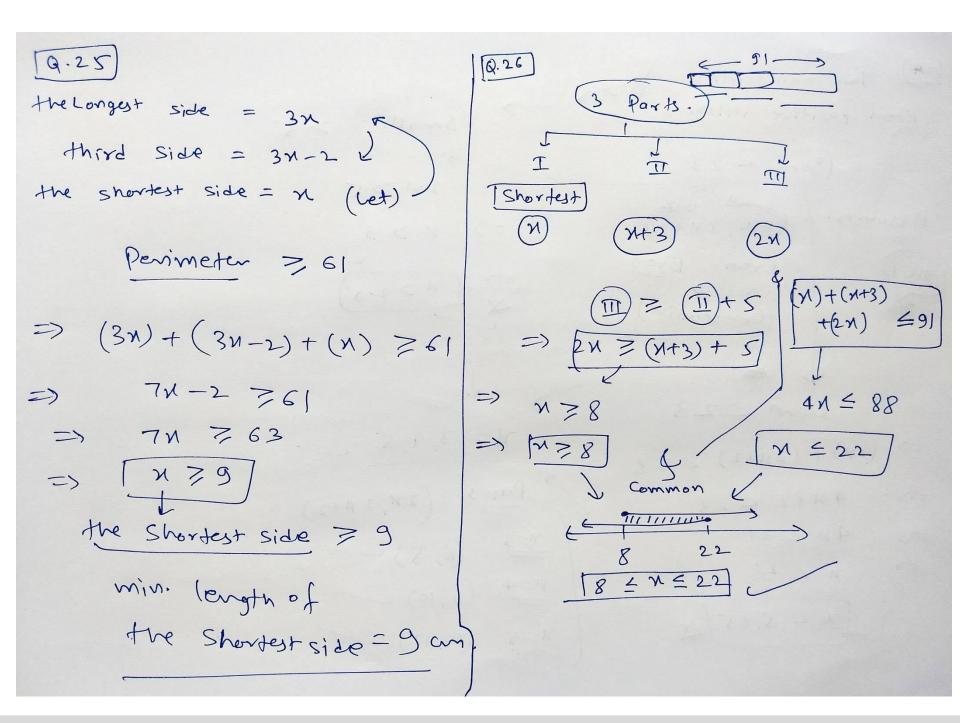
[Q.22] Marks is first four tests = 87, 92, 94, 95 marks in Fifth Exam = 11 (Let) Grade A' → Average ≥ 90 = $\frac{87+91+94+95+x}{5} \ge 90$ Average -> atleast 60 marks-= $\frac{368 + x}{5} = 90$ Average 7,60 $\Rightarrow 368 + 430 - 368$ $\frac{70+75+x}{3} > 60$ marks in => 0 => 82 >> 145+N > 180 min. Marks in @ Exam = 82 =) N = 180-145 marks of 3rd Test = 35



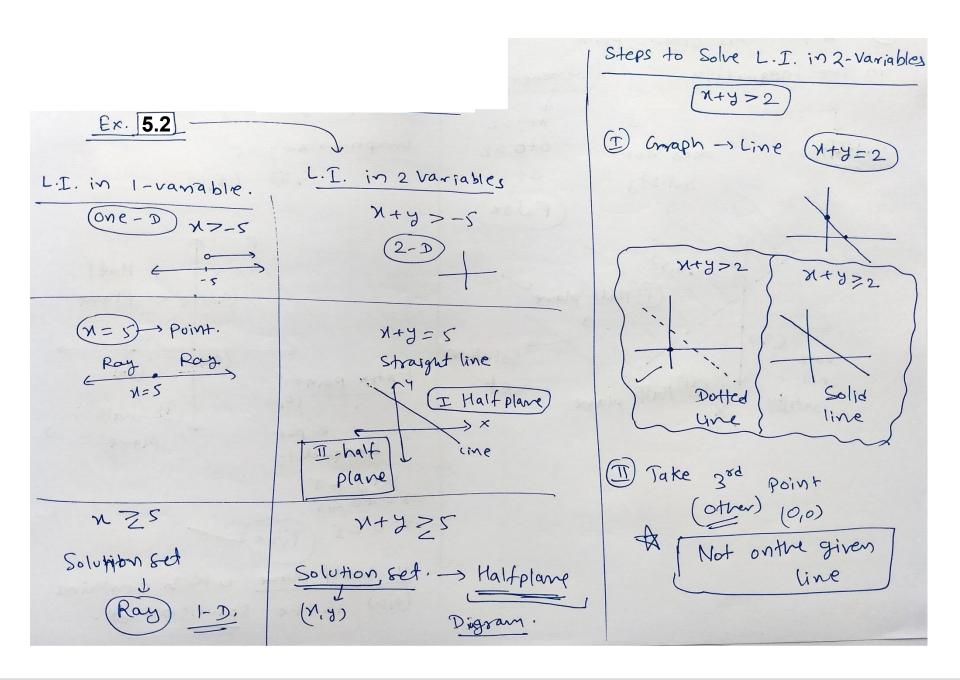




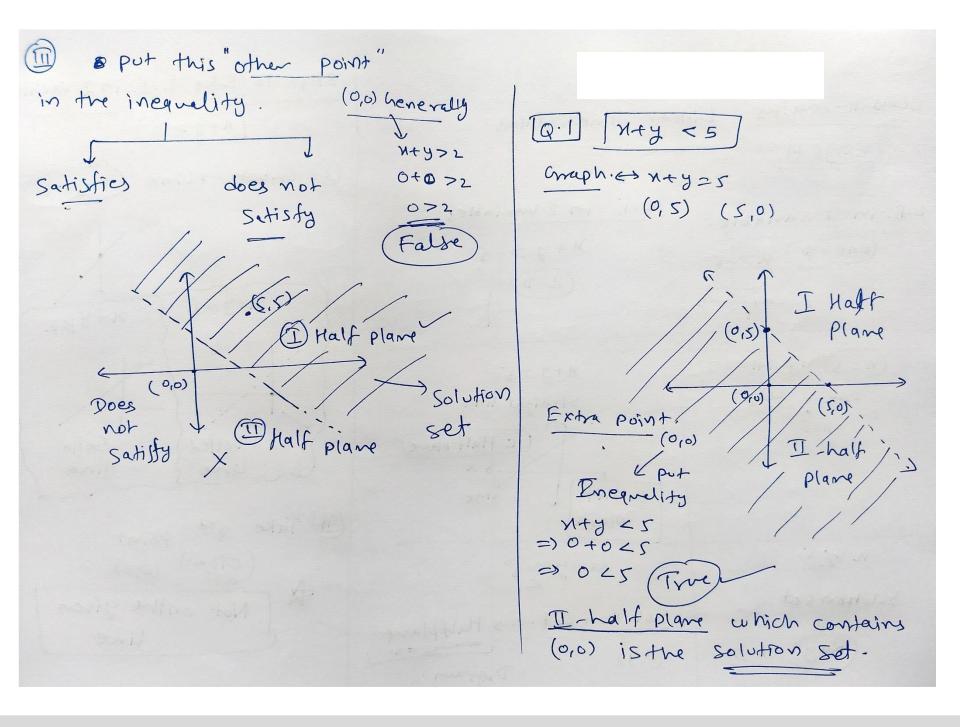




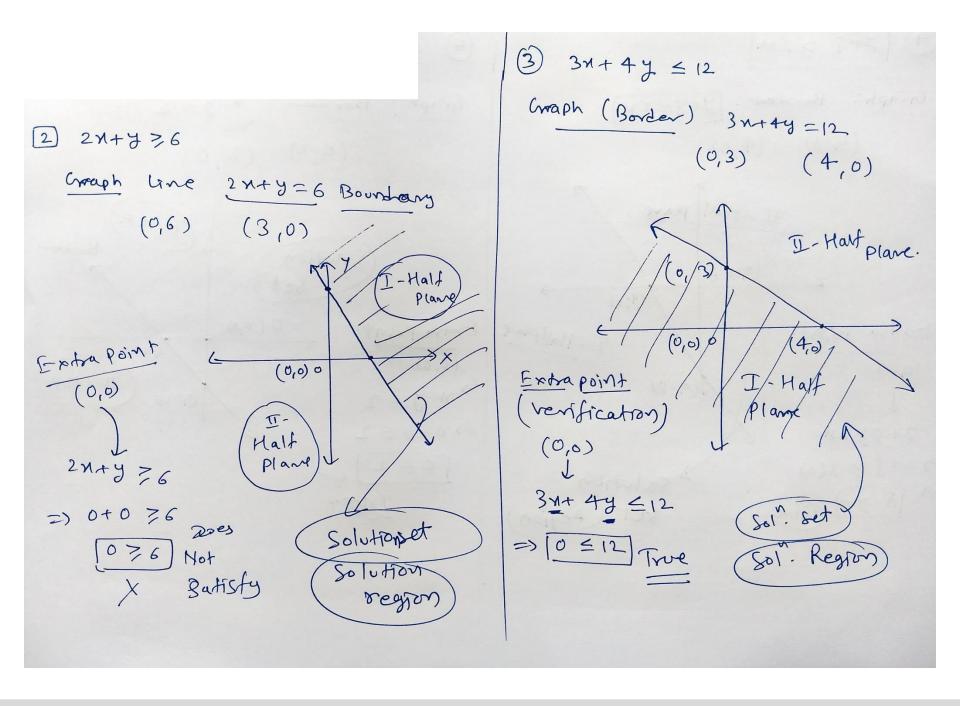




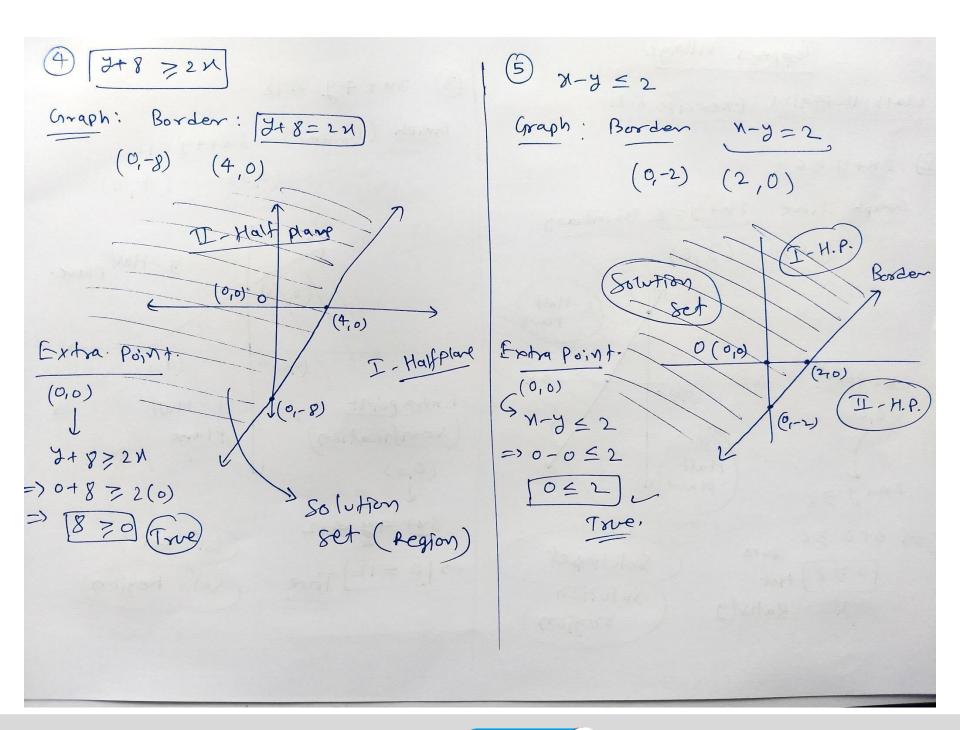




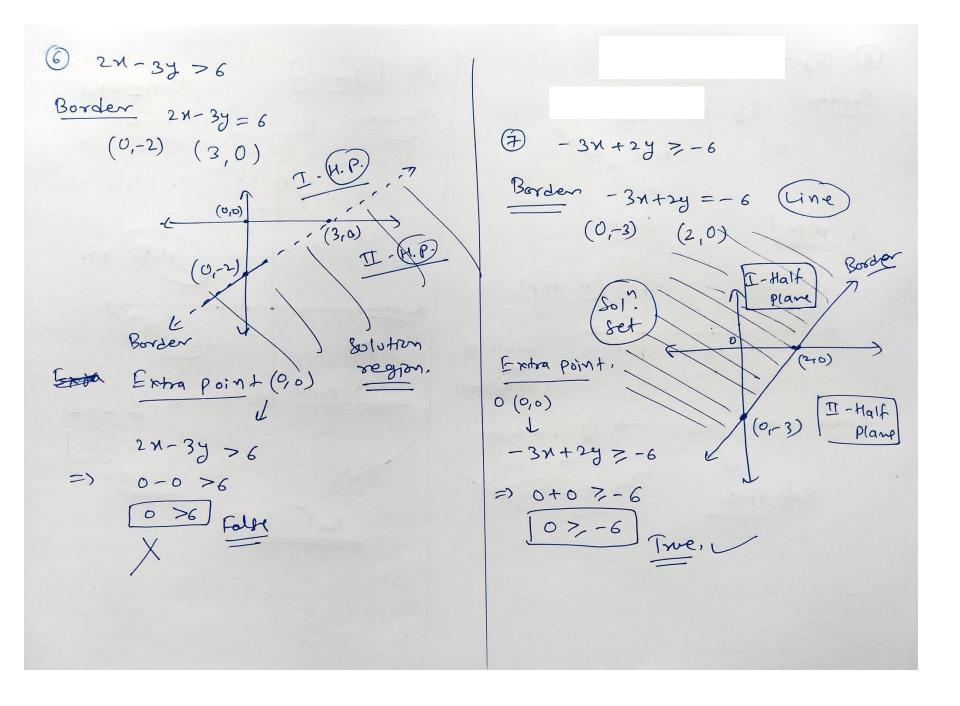




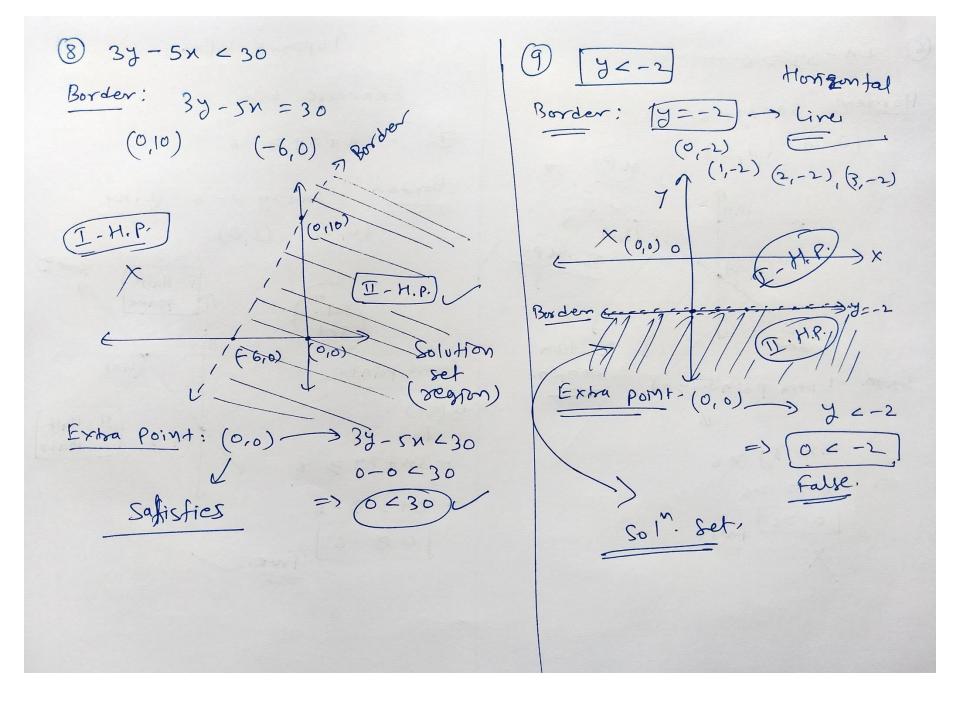




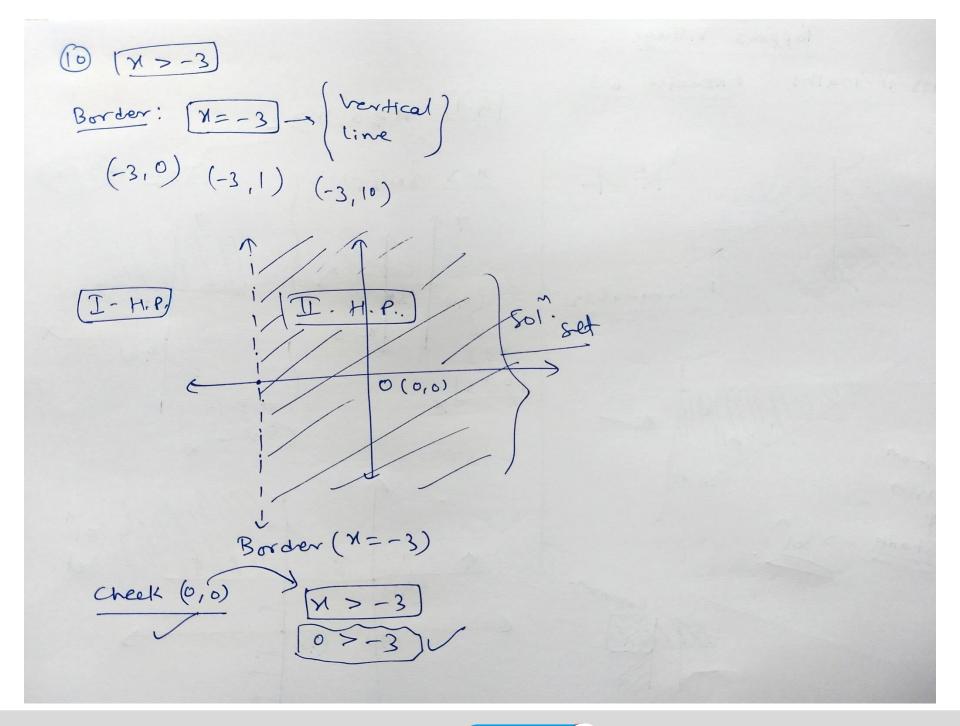




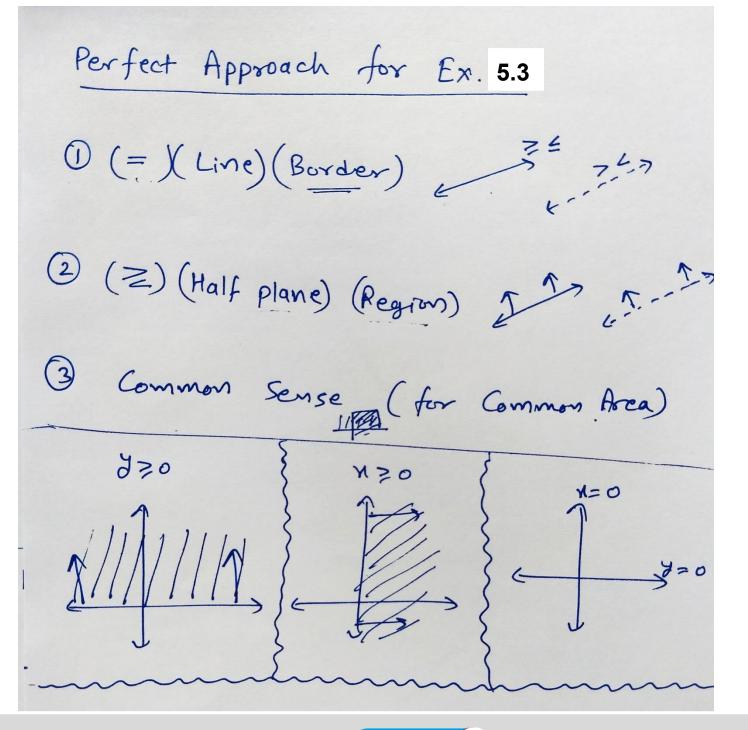




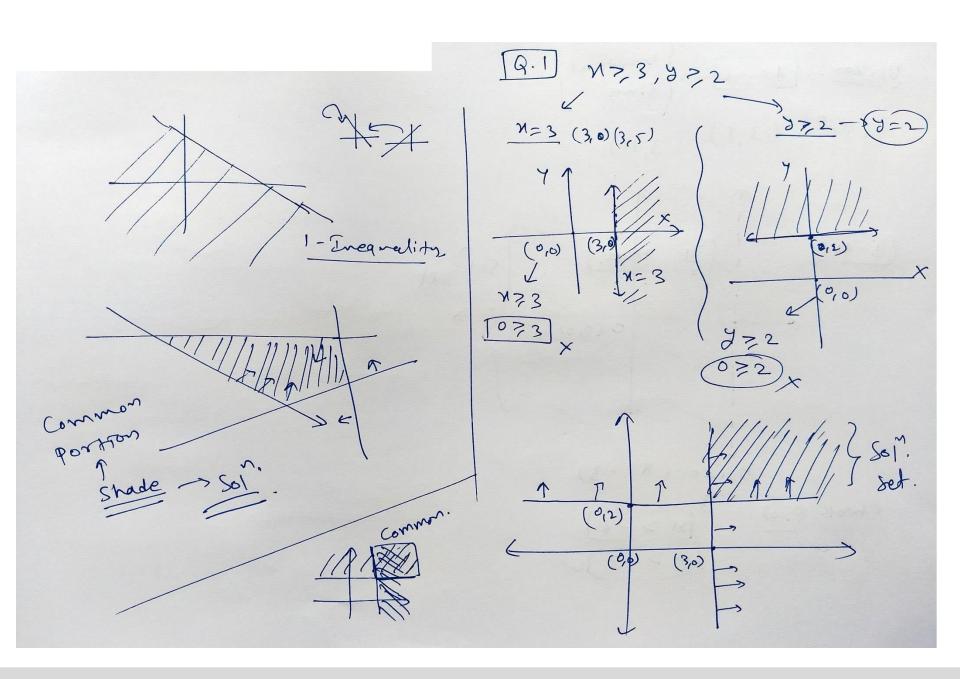




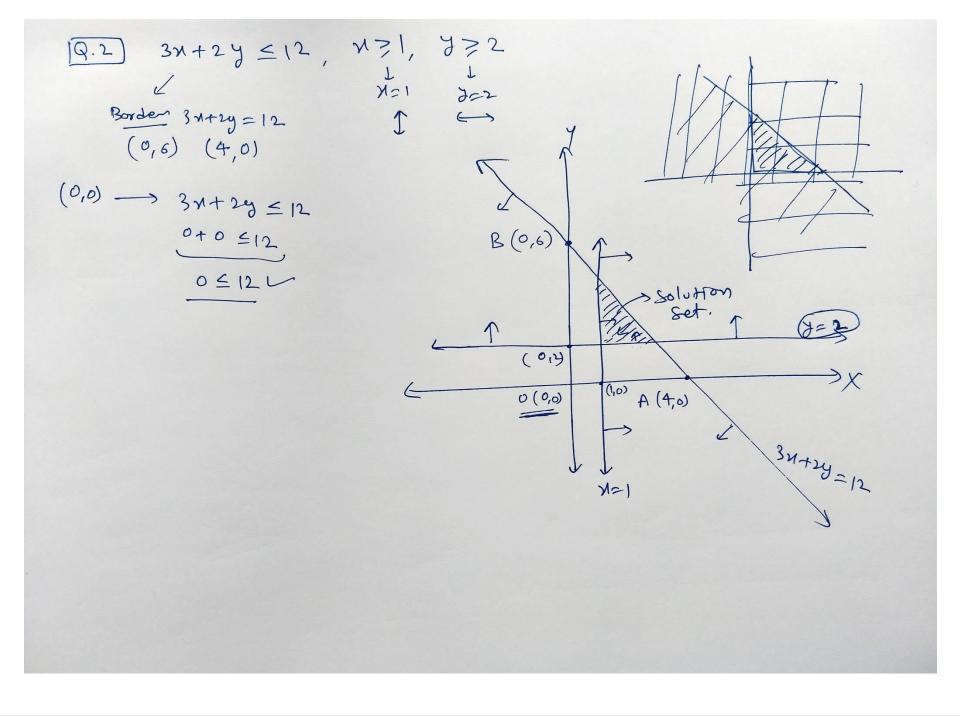




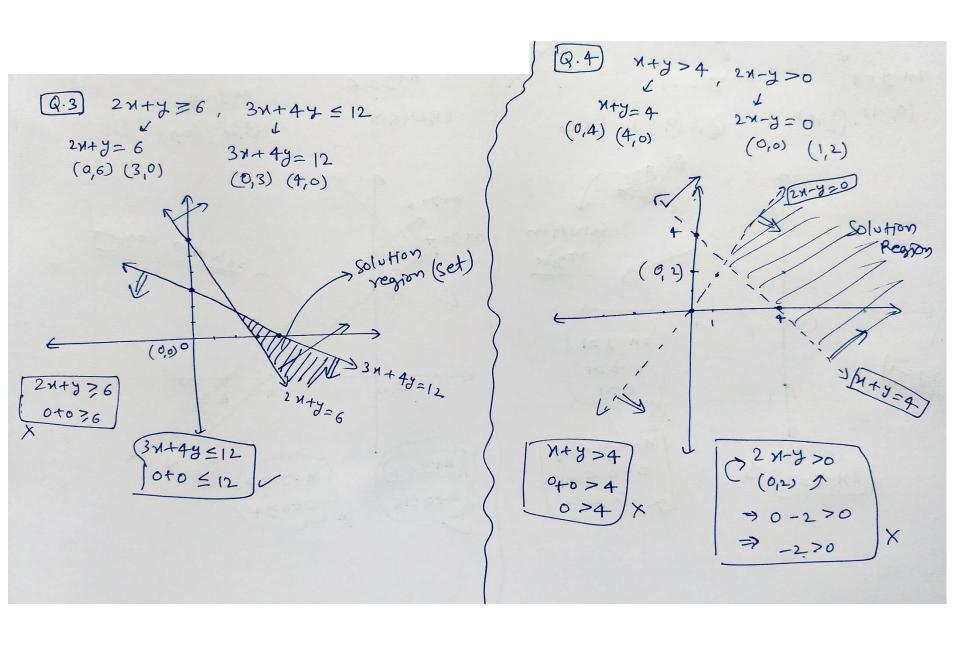


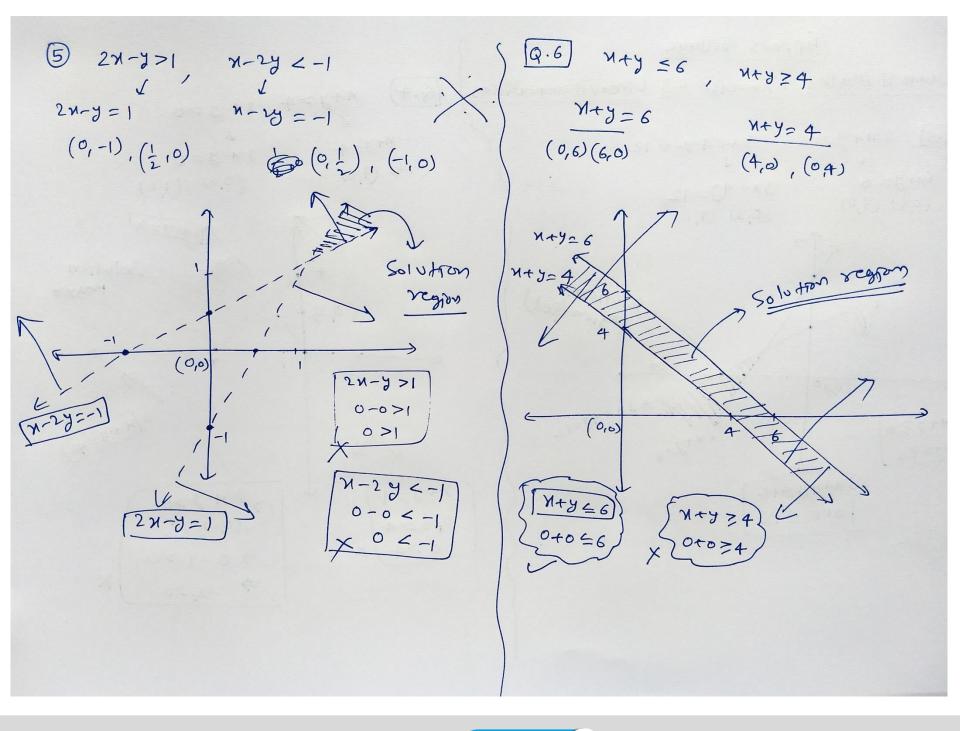




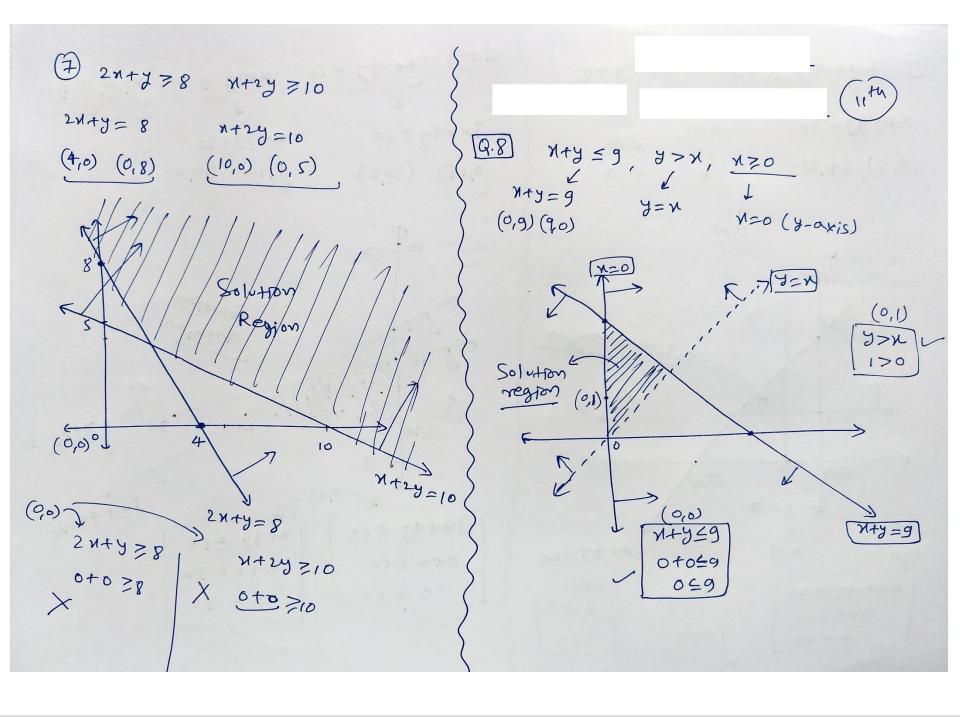




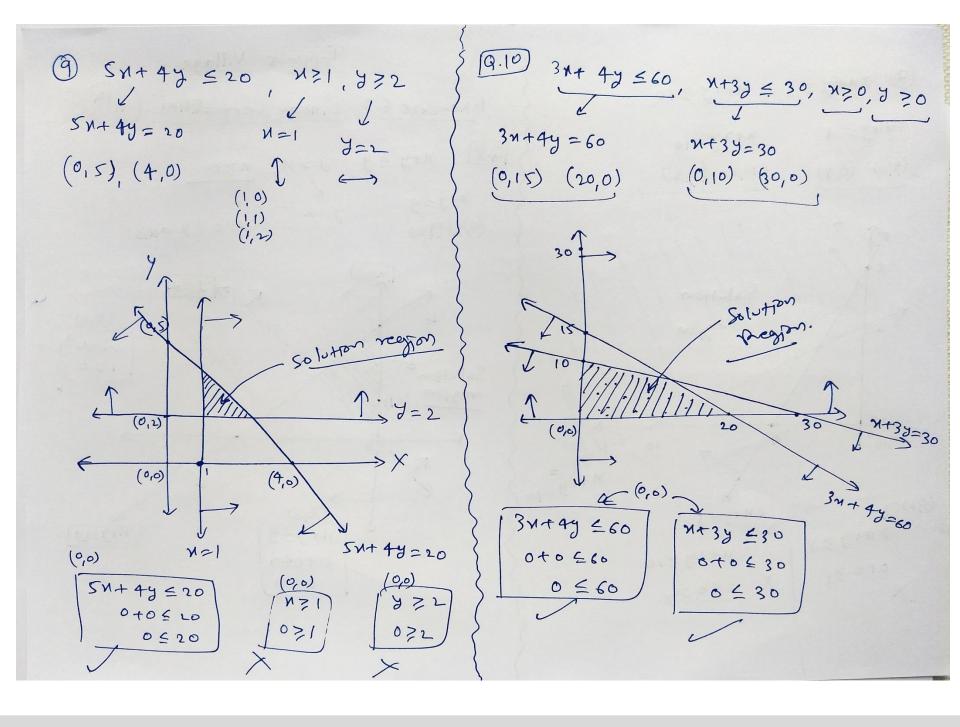




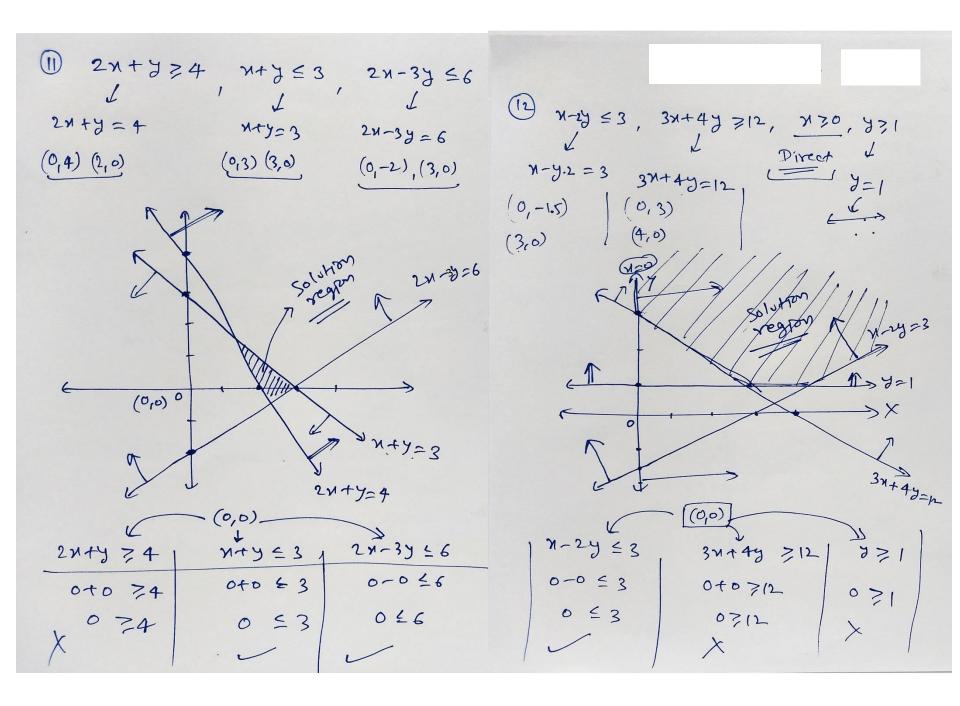




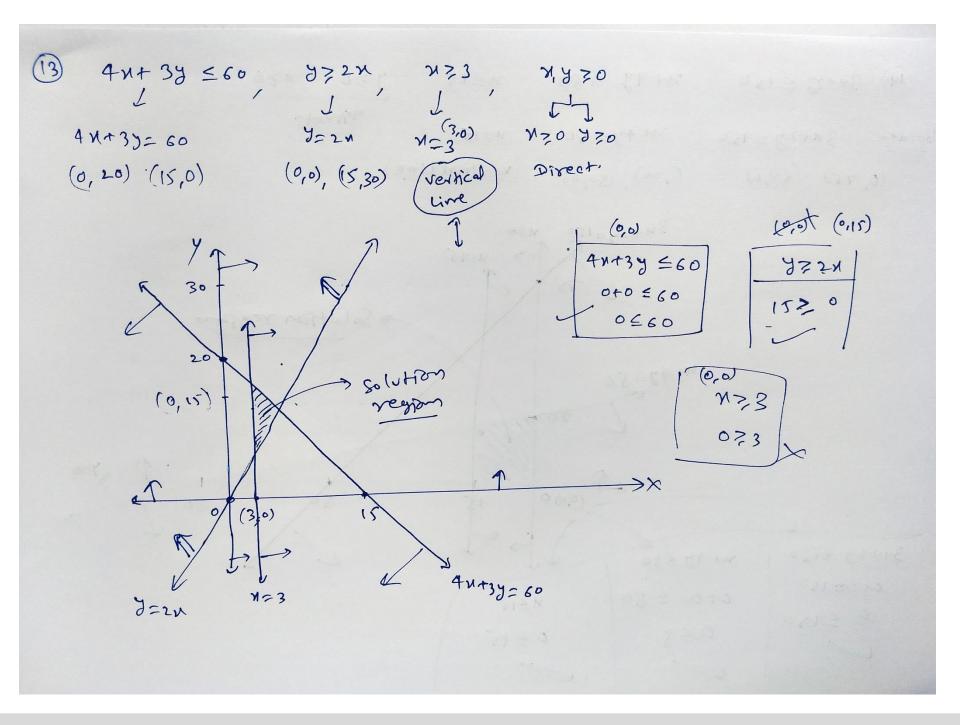




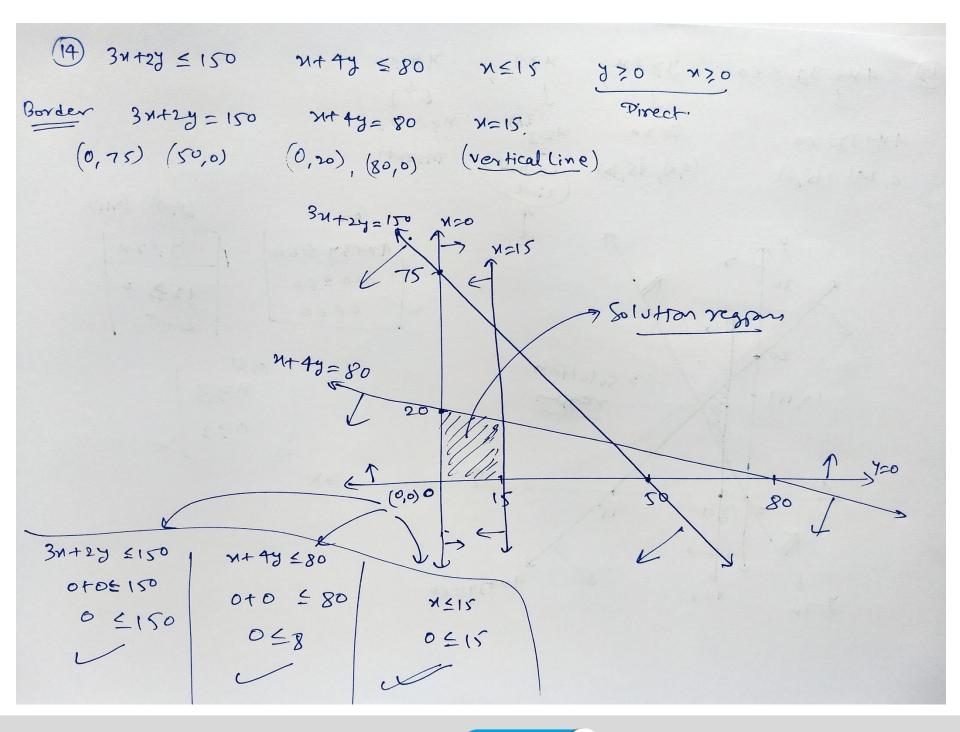




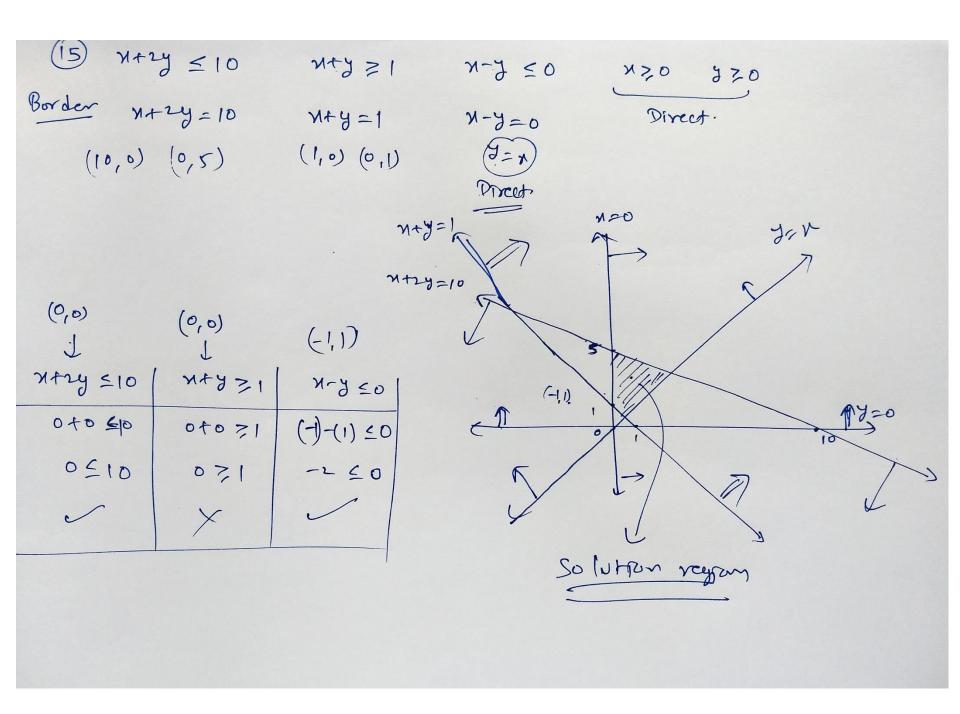




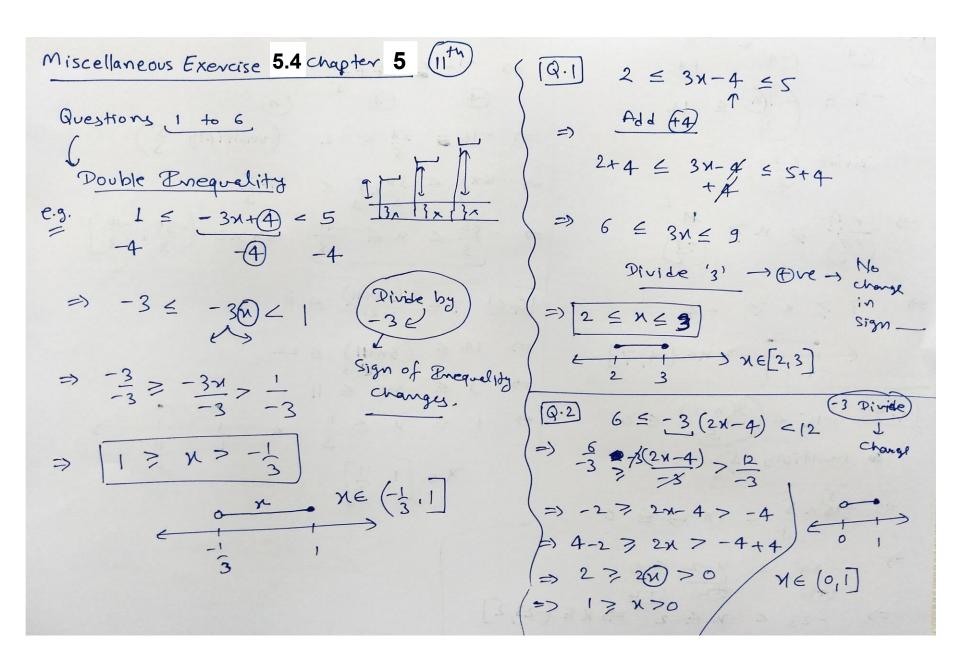












$$\boxed{Q.4} -15 < \boxed{3(n-2)} < 0$$

$$\Rightarrow -23 < \chi \leq 2 \Rightarrow \chi \in (-23, 2)$$

$$Q.5 - 12 < 4 - \frac{3}{-5} \le 2$$

$$\Rightarrow -12 \le 4 + \frac{3}{1} \le 2$$

$$= \frac{-12}{4} = \frac{4 + \frac{3}{5}}{5} \le 2$$

=)
$$-16 \leq \frac{3}{5} \leq -2$$
 (multiply $\frac{5}{3}$)

$$= \frac{3}{3} - \frac{3}{5} \times \frac{5}{3} = -\frac{2}{5} \times \frac{5}{3}$$

$$\Rightarrow -\frac{80}{3} < x \leq \frac{-10}{3} \Rightarrow x \in \left(-\frac{80}{3}, -\frac{10}{3}\right)$$

$$\Rightarrow 1 \leq \chi \leq \frac{11}{3}$$

$$\chi \in \left[1, \frac{11}{3}\right]$$

