① $7x - 12 > 9$

$7x > 12 + 9 \Rightarrow 7x > 21$
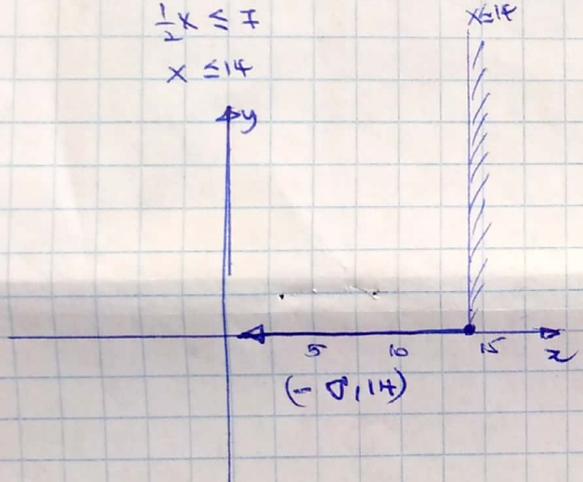
$x > 3.$

$(3, \infty)$

③ $\dfrac{18 - 8x}{4} \leq 5 \Rightarrow 18 - 8x \leq 20$

$18 - 20 \not> 8x$

$\dfrac{-2}{8} \not> \dfrac{8x}{8}$

$x < -2$

$(-\infty, -2)$

③ $\dfrac{4!}{4}(x - 1) \leq \dfrac{x + 4}{5}$ (6)

$\dfrac{6}{4}(x - 2) \leq x + 4$

$\dfrac{6}{4}x - \dfrac{12}{4} \leq x + 4$

$\dfrac{9}{2}x - x \leq 4 + 3$

$\dfrac{1}{2}x \leq 7$

$x \leq 14$

$(-\infty, 14)$

④ $|x - 7| < -10$
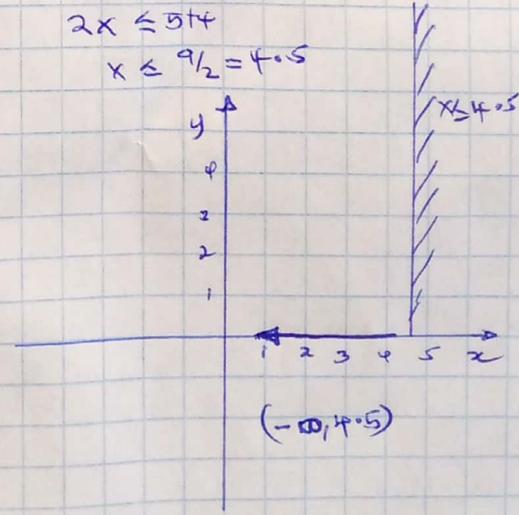
$x < -10 + 7$

$x < -3$
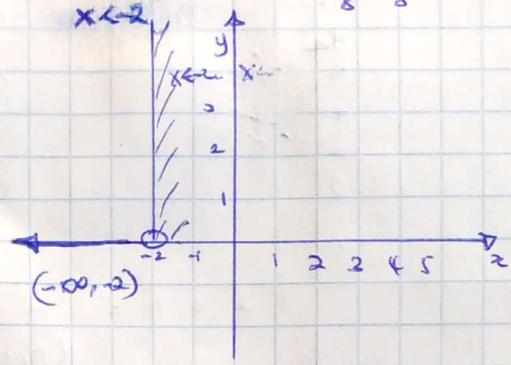
$(-\infty, -3)$

⑤ $|x + 4| > 11$

$x + 4 > 11$

$x > 11 - 4 \Rightarrow x > 7.$

$(7, \infty)$

⑥ $|2x - 4| \leq 5$

$2x \leq 5 + 4$

$x \leq \dfrac{9}{2} = 4.5$

$(-\infty, 4.5)$

(8) $\left|\frac{1}{2}x+7\right| \geq 11$

$\frac{1}{2}x \geq 4$

$x \geq 8$

$x \geq 8$

$(8, \infty)$
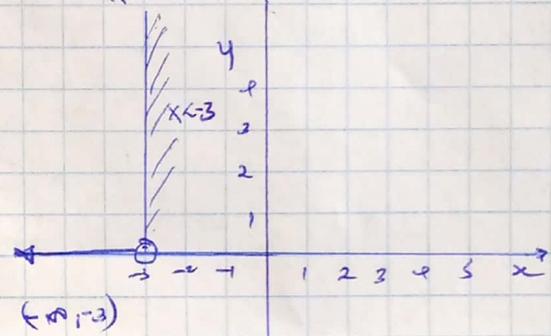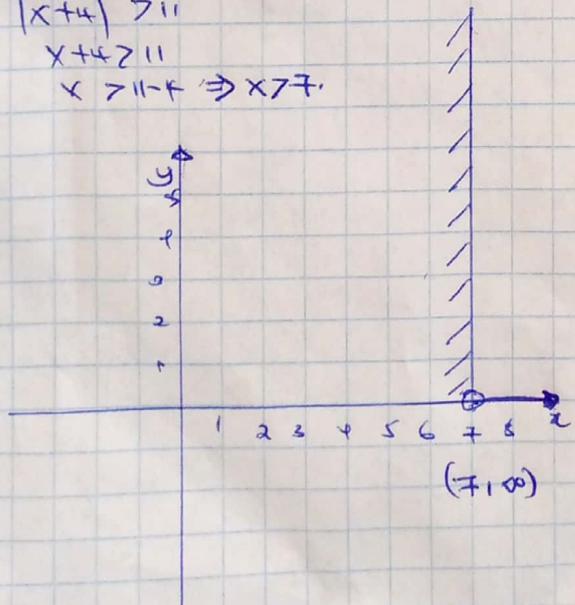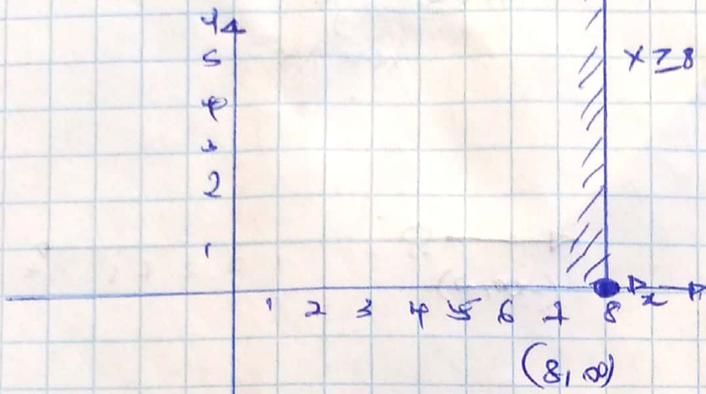
(9) $8x + 3(x+1) > 5x - (9x - 6)$

$8x + 3x + 3 > 5x - 9x + 6$

$11x + 3 > -4x + 6$

$15x > 3$

$x > \frac{1}{5}$

$x > \frac{1}{5}$

$(\frac{1}{5}, \infty)$