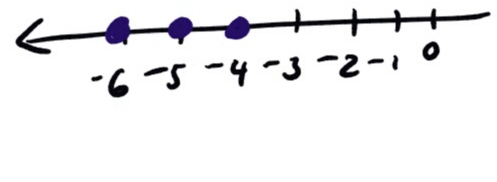
Q5) $8x - 1 < 5x - 10, \quad x \in Z$

$-5x$ | $3x - 1 < -10$ | $-5x$

$+1$ | $3x < -9$ | $+1$

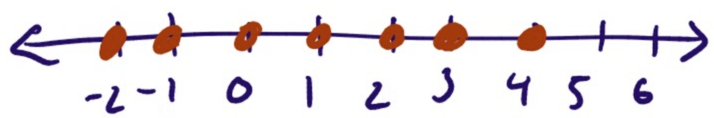
$\div 3$ | $x < -3$ | $\div 3$



Q6) $3x + 1 \leq 2x + 5, \quad x \in Z$

$-2x$ | $1x + 1 \leq +5$ | $-2x$

-1 | $x \leq 4$ | -1

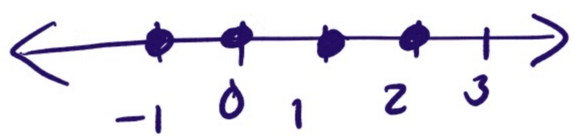


Q7) $7-x>4,\ x\in Z$

$\times(-1)$

$-7+x<-4$

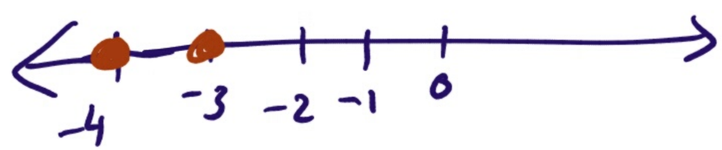
$+7$ | $x<3$ | $+7$



Q8) $2x-5\geq 3x-2,\ x\in \mathbb{R}.$

$-2x$ | $-5\geq x-2$ | $-2x$

$+2$ | $-3\geq x$ | $+2$



Pg 13 Q16

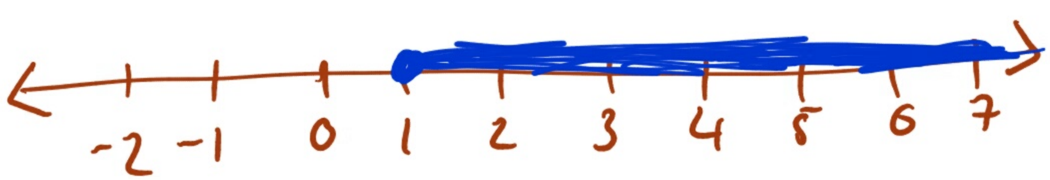
$5(2x-5) \geq 1-2(11-3x)$, $x \in \mathbb{R}$.

$10x-25 \geq 1-22+6x$

$-6x$ | $4x-25 \geq -21$ | $-6x$

$+25$ | $4x \geq 4$ | $+25$

$\div 4$ | $x \geq 1$ | $\div 4$



Q17 K) $11 \geq 3x+2 \quad x \in R$.

$-2 \mid 9 \geq 3x \mid -2$

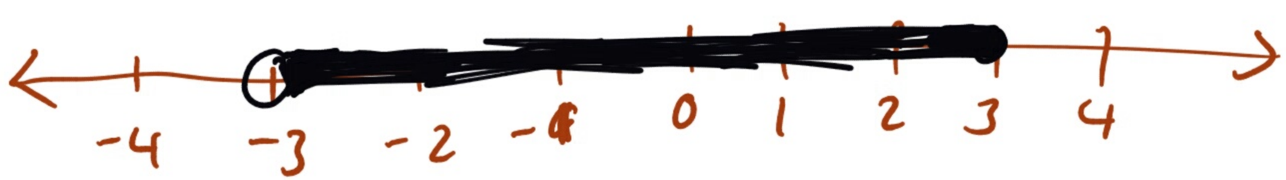
$\div 3 \mid 3 \geq x \mid \div 3$

L: $3x+2 \geq -7 \quad x \in R$.

$-2 \mid 3x \geq -9 \mid -2$

$\div 3 \mid x \geq -3 \mid \div 3$

$K \cap L$ # $-3 < x \leq 3$ $\{-3, \ldots, 3\}$



Q18, 19 Pg 13.

(Q18) P $2-3x \leq 4+x, x \in R$

$-x$ | $2-4x \leq 4$ | $-x$

-2 | $-4x \leq 2$ | -2

(-1) | $4x \geq -2$ | (-1)

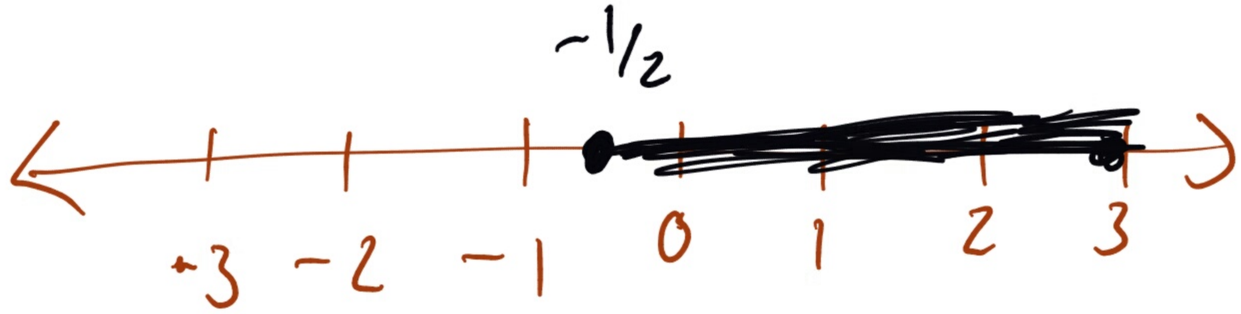
$x \geq \frac{-2}{4}$

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

Q $4+x \leq 7$ $x \in R$.

-4 | $x \leq 3$ | -4

$P \cap Q \{ -\frac{1}{2} \leq x \leq 3$



HW Pg 13 Q19 Pg 14 Q20.