2. Solve the inequalitie $-7 \le 10 - x \le 7$ express your solution sets using interval notation.

$$(3,17)$$
 $(-\infty,3) \cup (17,+\infty)$
 $(-\infty,3] \cup [17,+\infty)$
Solution

Intervals

 $-7-(10) \le -x \le 7-(10)$

 $|10 - x| + 2 \le 9$

$$-17 \leqslant -x \leqslant -3$$

Divide each side by -1 and flip the inequalities $|10-x|+2\leq 9|$