

2. For each of the following inequality,

i) solve the inequality of x

ii) Illustrate the solutions in number line.

iii) write in the interval notation.

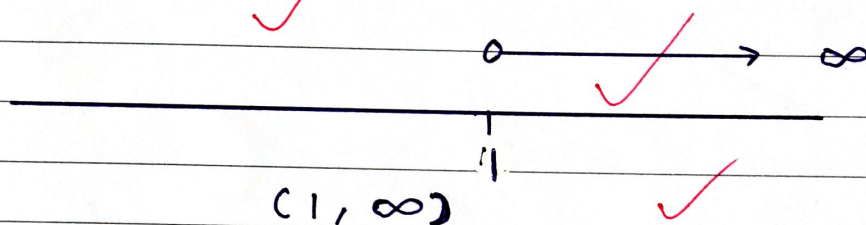
a) $x - 17 > -16$

b) $-9x \geq -90$

a) $x - 17 > -16$

$$x - 17 + 17 > -16 + 17$$

$$x > 1$$

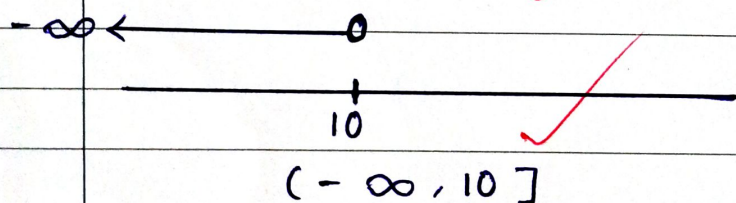


in interval notation from $\therefore (1, \infty)$

b) $-9x \geq -90$

$$\frac{-9x}{-9} \leq \frac{-90}{-9}$$

$$x \leq 10$$



in interval notation from $\therefore (-\infty, 10]$

NO.:

Date:

Chapter 5 (2)

Self - Exercise

1. calculate the following inequalities

a) $-4x + 8 \leq 0$

$$-4x + 8 \leq 0$$

$$-4x + 8 - 8 \leq 0 - 8$$

$$-4x \leq -8$$

$$\frac{-4x}{-4} \geq \frac{-8}{-4}$$

$$x \geq 2 *$$

b) $-6 + 6k > 2 + 2k$

$$-6 + 6k > 2 + 2k$$

$$-6 + 6k > 2 + 2k - 2k$$

$$-6 + 6k - 2k > 2$$

$$-6 + 4k > 2$$

$$-6 + 6 + 4k > 2 + 6$$

$$\frac{4k}{4} > \frac{8}{4}$$

$$k > 2 *$$

c) $-3 + 4x > 7$

$$-3 + 3 + 4x > 7 + 3$$

$$\frac{4x}{4} > \frac{10}{4}$$

$$x > \frac{5}{2}$$

Checked
20/9/18.