



Graduationg class of 2019!

Sept 5/18

Unit #1 Background Essentials

1.1 Interval Notation

Interval Notation:

Allows us to describe sets of real numbers in a quick and compact form through a clever use of round brackets, square brackets and the symbols for positive and negative infinity.

$\infty - \infty$

$x \geq 3$



Write the following using interval notation:

a) $x < -2$

$(-\infty, -2)$

b) $x \geq 5$

$[5, \infty)$

c) $-7 < x < 3$

$(-7, 3)$

open interval

d) $-9 \leq x \leq 10$

$[-9, 10]$

closed interval

Write the following using inequality notation:

a) $(-\infty, 6)$

$$x < 6$$

b) $[3, \infty)$

$$x \geq 3$$

c) $[-11, 7)$

$$-11 \leq x < 7$$

d) $[-16, 12]$

$$-16 \leq x \leq 12$$



~~$x \in \mathbb{R}$~~



Be careful to read questions carefully and don't confuse an open interval with a coordinate!

In mathematics we need to be problem solvers!

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#'s 3 (just write as an inequality)

4 (just write using interval notation)

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