

Section 1.1: Sets

Monday, September 22, 2014
2:27 PM

Set \equiv a collection of objects

\uparrow
don't have to be
numbers

element \equiv a member of a set

notation:

$$A = \{ 1, 2, 3 \}$$

\uparrow
the set A

$$B = \{ 2, 4, 6, \dots \}$$

\leftarrow an infinite
set

$$C = \{ 2, 4, 6, \dots, 100 \}$$

\leftarrow finite set

$$36 \in C$$

\uparrow
"is an element of"

or "belongs to"

$$37 \notin C$$

\uparrow
"not an element of"

equality of sets:

$$\{ 2, 4, 6 \} = \{ 6, 4, 2 \}$$

order doesn't
matter

$$\{ 2, 4, 6 \} = \{ 2, 2, 4, 4, 4, 4, 6, 6 \}$$

repetition doesn't
matter