

TOPIC: THE EMPTY SET

The Empty Set



◆ The **empty set** is the set containing _____ elements, notated: _____, or _____.

EXAMPLE

Determine if each of the following is the empty set. If not, name at least one element of the set.

(A) $\{2, 4, 6, \dots\}$ Empty set? [YES NO]	(B) The set of numbers greater than 20 and less than 10. Empty set? [YES NO]	(C) $\{0\}$ Empty set? [YES NO]	(D) $\{\emptyset\}$ Empty set? [YES NO]
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◆ Note: $\{ \}$, $\emptyset$, are NOT the same as $\{\emptyset\}$, $\{0\}$

PRACTICE

Is the following set empty or not empty?

(A) The set of prime numbers less than 5	(B) The set of odd numbers that are also divisible by 2
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