Some of the symbols used:

\( \phi \)  
Empty or null set

\( e \)  
Belongs to

\( \notin \)  
Does not belong to

\( = \)  
Is equal to

\( \neq \)  
Is not equal to

\( \Rightarrow \)  
Implies

\( \leftrightarrow \)  
Implies and implied by

\( \forall \)  
If and only if

\( \exists \)  
With respect to

\( \forall \)  
For every

\( \exists \)  
There exists

\( A \subseteq B \)  
A is a subset of B

\( A \supseteq B \)  
The complement of A w.r.t. X

\( X - A \cup \{ e(A) \} \)  
A singleton set consisting of one element

\( \text{Cl}(A) \cup \bar{A} \)  
The closure of the set A

\( \text{Cl}(A) \cup \bar{A} \)  
The closure of A w.r.t. topology

\( \ell \)  
A topology (with open elements)

\( \cup \)  
Union

\( \cap \)  
Intersection
A topology induced by the product topology.
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