

More on sets

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Proper Subset:

$A \subset B$ if $A \subseteq B$ but some extra stuff in B that isn't in A .

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8. a) $\emptyset \subseteq A$
 $\{\emptyset\} \subseteq A$

Since there are no elements in $\{\emptyset\}$, all of the non-existent elements in $\{\emptyset\}$ are also in A .

Notice: $\{\emptyset\}$ is not empty since it contains one element

ex. $A = \{1, 2, 3\}$
then $\emptyset \subseteq A$ but $\{\emptyset\} \not\subseteq A$ because \emptyset is not an element of A

ex. Not: