More on sets

Thursday, October 4, 2018  1:02 PM

Proper subset:

\[ A \subseteq B \text{ if } A \neq B \text{ but some extra stuff in } B \text{ that isn't in } A. \]

8. a) \( \emptyset \subseteq A \)
\[ \{ 1 \} \subseteq A \]
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.