Examples and Problems

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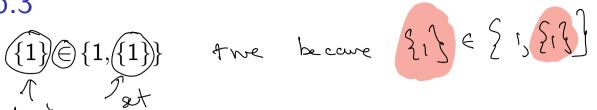
Example 1.6

Example 1.6 gives a bunch of true statements with explanations.

May emphasize the difference between the notations \subseteq and \subseteq . Let's look at some of them.

$$A \subseteq B$$

$$\{1\} \subseteq \{1,2,3\}$$



$$\{1\} \subseteq \{1,\{1\}\}$$

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1.6.10 $\emptyset \subseteq \mathbb{N}$ \emptyset is a subset of every set.

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Problem 1.3.9

Write out the elements of the set $\{X : X \subseteq \{3, 2, a\} \text{ and } |X| = 2\} = \emptyset$

$$X hos 2^3 = 8 \text{ subsets}$$
 $B = \{3,2\}, \{2,a\}, \{3,a\}\}$