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~~Basic to set theory is the notion of membership or elementhood. Indeed, set theory can be formulated in its entirety as a formal theory in which the only non-logical notion (symbol) is membership.~~

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*Hardegree, Basic Set Theory page 4 of 39 39 Next, we note that set theory officially postulates that  $\{a\}$ ,  $\{a,b\}$ ,  $\{a,b,c\}$ , etc., are all well-defined sets, provided  $a$ ,  $b$ , and  $c$  are well-defined. This means that set theory postulates the existence of infinitely-many sets, including the following, just for starters.*

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